(12)

DTNSRDC-83/079

DAVID W. TAYLOR NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER

Bethesda, Maryland 20084

THE ALUMINUM SHIP EVALUATION MODEL (ASEM) STATIC TEST RESULTS

by

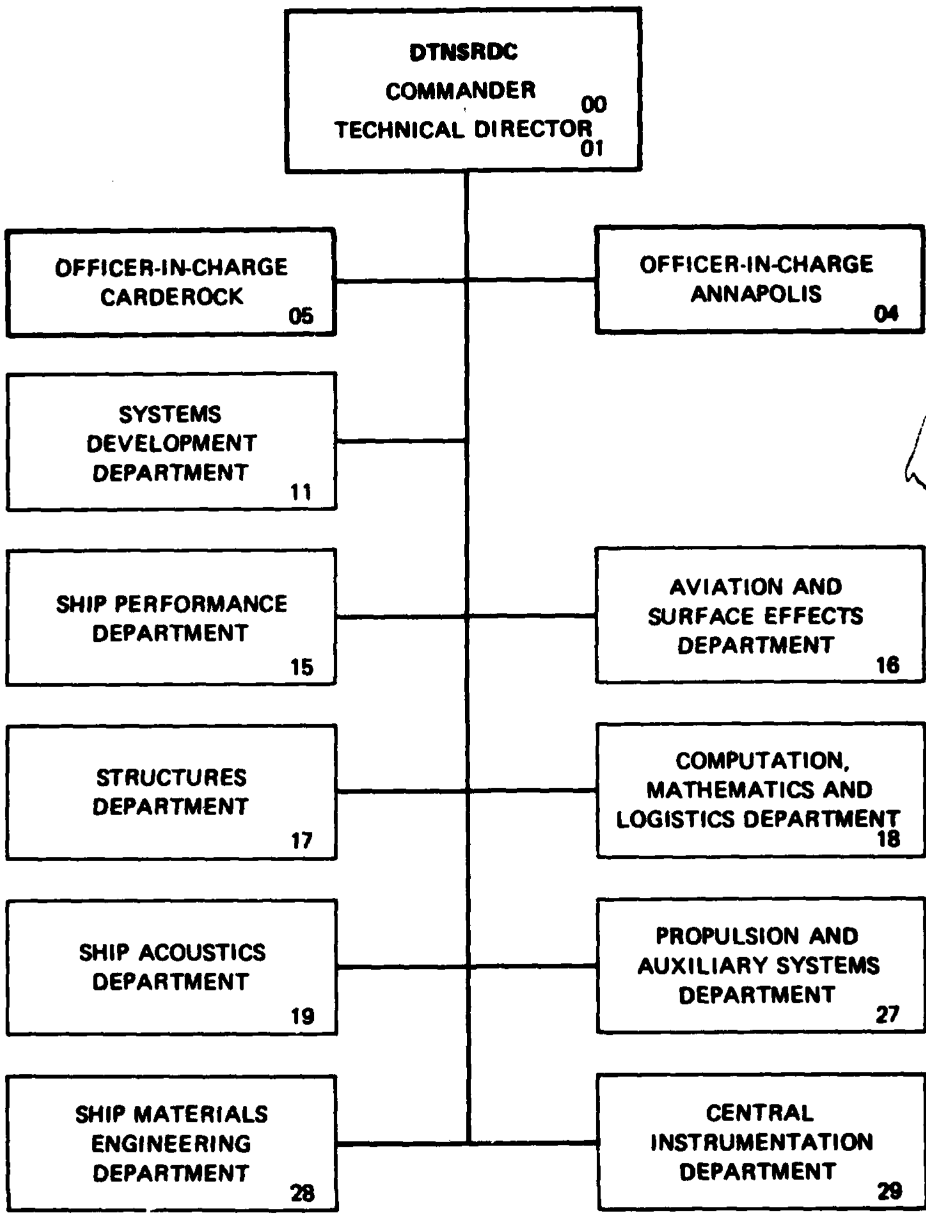
Robert E. Johnson
Jeffrey E. Beach

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

STRUCTURES DEPARTMENT
RESEARCH AND DEVELOPMENT REPORT

December 1983 DTNSRDC-83/079

MAJOR DTNSRDC ORGANIZATIONAL COMPONENTS



UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DTNSRDC-83/079	2. GOVT ACCESSION NO. AD-A138 176	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) THE ALUMINUM SHIP EVALUATION MODEL (ASEM) STATIC TEST RESULTS		5. TYPE OF REPORT & PERIOD COVERED Final
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Robert E. Johnson Jeffrey E. Beach		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS David W. Taylor Naval Ship Research and Development Center Bethesda, Maryland 20084		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Program Element 62543N Subproject SF43422 Objective No. 150-200
11. CONTROLLING OFFICE NAME AND ADDRESS Naval Sea Systems Command (NAVSEA 05R) Washington, D.C. 20362		12. REPORT DATE December 1983
		13. NUMBER OF PAGES 318
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION DOWNGRADING SCHEDULE (See reverse side)

16. DISTRIBUTION STATEMENT (of this Report)

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Ship Structure Data Analysis
Ship Structure Static Tests
Large Scale Validation of Ship Models
Aluminum-Hulled Ships
Ship Model Finite Element Analysis
Ship Rigid Vinyl Model

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The results of selected static structural tests of the Aluminum Ship Evaluation Model are presented. The data are documented in tables and figures. Background history, preliminary preparation, and significant accomplishments leading up to and during the static tests are included.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE
S/N 0102-LF-014-6601

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

TABLE OF CONTENTS

Page

LIST OF FIGURES

Page

LIST OF TABLES

ABSTRACT

The results of selected static structural tests of the Aluminum Ship Evaluation Model are presented. The data are documented in tables and figures. Background history, preliminary preparation, and significant accomplishments leading up to and during the static tests are included.

ADMINISTRATIVE INFORMATION

The work described herein was performed by the Ship Structures Division, Code 1730, of the Structures Department, of the David W. Taylor Naval Ship Research and Development Center (DTNSRDC). It was sponsored by the Naval Sea System Command (NAVSEA 05R) as part of the Structures Subproject SF43422 of the Ships, Subs, and Boats Exploratory Development Program Element (62543N). This document fulfills FY83 Milestone No. R10 of Goal and Objective No. 150-200. Overall program management was provided by J. E. Gagorik, NAVSEA 05R26.

INTRODUCTION

With the anticipation of increased use of aluminum in ship structures and an introduction of new ship hull configurations, a need was realized to study the performance of large scale complex structures under realistic controlled load conditions. This need included the validation of structural performance through large scale structural testing, the application of life cycle experimental techniques for naval ships, and the development of a validated techology base of aluminum-hulled, ocean-going ships. To achieve these goals, an all-aluminum ship model was fabricated, and an extensive large scale evaluation program was initiated in the early 1970's. This is the only time the Navy had the benefit of testing a large scale model of a surface ship structure. This method of testing is not unique, since the approach is frequently used by the aerospace industry with considerable confidence and success.

In order to fulfill the primary objective of large scale validation, a number of areas were addressed: (1) a method of applying loads to a large scale model and of obtaining stresses in the structure similar to those in a full size ship at sea; (2) a method to determine the instrumentation required to monitor primary, secondary, and tertiary stresses; (3) simulation of service loads and the effect of the

simulation on the test results; and (4) automatic control of the load, as well as a means of monitoring strains during testing.

A number of supporting technologies were used during the large-scale validation program. Analytical methods such as finite element analysis, rigid vinyl modeling, and crack-growth analysis are three examples. As shown later, comparing the results from these analytical techniques to large scale test results helps verify those methods.

Three major needs existed at the time for obtaining an aluminum technology base for U.S. Naval applications. First, there was a substantial lack of service experience for large aluminum-hulled ocean-going ships. Second, there was a definite interest, at that time, in advanced Navy vehicles (high performance ships) such as planing craft, hydrofoil craft, hover craft, and surface effect ships. In order for this type of ship to successfully perform its mission, it must have light-weight systems. Since one-third to one-half of the ship's weight is in the structural system, the selection of a high-strength, low-weight hull material such as aluminum was reasonable. The third and final reason was the Navy's potential interest in a fast, aluminum destroyer escort (DE) in the 2000-ton, 300-ft size range. This interest was based on an economic advantage of aluminum over steel for life-cycle costs of ships in this size and performance range.

For these reasons (large scale validation and aluminum technology base), an all-aluminum, 85-ft-long model of a destroyer escort was designed and built to be both statically and cyclically tested.[1*] This Aluminum Ship Evaluation Model (ASEM) was originally designed as a 300-ft, 2200-ton all aluminum DE with integral, load-bearing superstructure. Figure 1 shows a profile view of the original design. The 300-ft size was scaled down to one-third size, resulting in a 100-ft long structural scale model, which was further reduced by eliminating 15 ft of nonstructural bow section. For economy, the 03 deck was also eliminated. Figure 2 shows a view of the model prior to load frame installation.

After preliminary design by NAVSEA design personnel, and detail design at Hunters Point Naval Ship Yard, construction began in 1974 by Tacoma Boatbuilding Co., Inc. The model was eventually shipped to the Structural Evaluation Laboratory at

---

*A complete listing of references is given on page 19.

DTNSRDC for load frame installation, receipt inspection,* and instrumentation.** All of these were required before testing could start. The planned testing included static tests under various combinations of loads to determine basic load, stress, and deflection behavior; and cyclic testing to determine long-term fatigue behavior.

Static testing began in early 1977 and continued for the remainder of the year. It wasn't until 1979 that cyclic testing was initiated. Testing was completed in November of 1981 after one million load cycles had been applied to the model.

Much time and effort had been expended throughout the duration of the project. It is not the intent of this report to go into the details of all aspects of the ten year project. (Appendix A shows the chronology of ASEM major events up to static test completion.) Rather, the report summarizes the results of static test and strain data analyses. In addition, the "lessons learned" during the test process are highlighted.

Subsequent comprehensive reports will cover material characteristics,[2] structural design,[3] aluminum ship fabrication,[4] and maintenance and repair.[5]

STATIC TEST PROCEDURE

After several years of test preparation, the ASEM static testing began in March 1977 and was completed by December 1978. Testing was in three parts: (1) vertical bending, (2) lateral bending, and (3) combined vertical and lateral bending. The bending moments were applied through 13 load frames along the length of the model. Two load frames, one at Bulkhead 24 and the other at Bulkhead 86, were fixed in space and the remaining 11 load frames were movable (allowed to displace with load). Two double pin joints were used in the connection of the frame, load cells, and hydraulic actuators, thus permitting rotation about three axes. Figure 3 is a typical load-frame configuration. At each load frame, one starboard hydraulic acuator or jack and one or two keel jacks (coupled with closed-loop, feedback system load cells) were used for load application. Table 1 lists the load cell's channel numbers and their location on the model.

*Johnson, R.E., "The Aluminum Ship Evaluation Model (ASEM) Receipt Inspection," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-22 (15 Feb 1980).

**Johnson, R.E., "The Aluminum Ship Evaluaton Model (ASEM) Instrumentation," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

The movable frames mentioned earlier were made up of 2, 3, or 4 semirigid parts depending on the frame location. The frames were held to the ASEM hull by the clamping action of the bolted-together parts against rubber strips that were glued to the hull and deck plating. In addition, small aluminum blocks with steel rollers installed were welded to the hull to prevent fore-and-aft motion of the load frames relative to the model. A pad pressure of approximately 5 psi was developed in the rubber due to the clamping action of the frame. The actual configuration of the rubber padding evolved through a lengthy analytical and experimental process which was aimed at keeping tertiary stresses in the stringers and plating below about 4 ksi under maximum load. The final pad configuration used is shown in Figure 4. The rubber strips were glued to the plating directly outside of the bulkhead plating and longitudinal stringers. These external locations were determined by visually locating plate distortion due to the internal fillet welds. The visual method of locating bulkhead plating centerlines can have an error up to 1/16-in. but is as accurate as other methods, such as ultrasonics.

The static loads were applied in an incremental fashion from 0 up to 80% of maximum positive load ($+0.8\ P_{max}$) in $0.1\ P_{max}$ increments, back to 0 in $0.1\ P_{max}$ increments, to $-0.8\ P_{max}$ in $0.1\ P_{max}$ increments, and back to 0 in $0.1\ P_{max}$ increments. This gave a total of 38 load levels for each test part, including the initial zero, final zero, system lock and unlock, and lateral offset.

Each test was performed enough times to establish repeatable linear strain response with load. A complete listing of the static tests is given in Table 2. During each static test, 1800 strain channels were recorded at each of the 38 load levels. An instrumentation limitation existed such that only 600 channels could be monitored at any one time. This required switching three banks at each load level to obtain the strain readings. The linearity in load versus strain response and, thus, the basic stress sensitivities (numbers of pounds per square inch per unit load application) were required for the cyclic testing. Next, 600 channels of the 1800 channels recorded during the static test were chosen for the cyclic test. These 600 channels were comprised of crack gages, gages reading high strains due to geometric discontinuities, and gages in the 3/5-length region that would accurately define the combined vertical and lateral midship bending moment as a function of time. More details are provided in a report[6] on the cyclic test results.

After the repeatability between like test conditions was established, one complete set of data from each of the four test conditions (vertical, lateral, 60° combined, and 240° combined) was further analyzed for statistical information (Table 3). Tables describing these data analyses are found in Appendix B; associated strain data plots are found in Appendix C. Vertical-bending response slope, lateral-bending response slope, correlation coefficient, standard deviation, and predicted minimum and maximum strains were calculated for each gage for each test condition. A comparison was also made between bending response slopes for various tests, and the most repeatable gages were identified for the cyclic test.

STATIC TEST LOADING

The incremental loading magnitudes used in the static tests were directly related to those of the cyclic test. In order to better understand how these were determined, a brief explanation of the load spectra is warranted.

The development of a design load spectrum relied on factors which influence a ship response in a seaway. A ship's characteristics determine how that ship will perform for operating and wave environment conditions as defined by the ships's mission. Prediction of ship structural performance under lifetime loading is based primarily on the results of full scale trials on similar ships and related model tests.

The basic spectra to be used for the design of a 300-ft aluminum ship were developed in Reference 7. The spectra are for vertical and lateral (or athwartship) bending moments (BM) defined amidships. The vertical spectrum combines the ordinary wave (OW) or low frequency hog-sag (H-S) BM cycles shown in Figure 5 with the vertical dynamic or whipping BM cycles from Figure 6. Reference 7 discusses the method of combining the high frequency whipping cycles with the OW cycles to develop the vertical lifetime spectrum (Figure 7).

The basic vertical spectrum, in terms of H-S vertical bending moment, is listed in Table 4 as determined from Figure 7. A cycle consists of zero (0) to H (hog) (or S (sag)), through 0 to S (or H), and back to 0. As discussed in Reference 7, the whipping cycles are superimposed onto the OW cycles but only add a significant number of cycles to the high load end of the spectrum. The superimposed whipping

causes the H-S moments at the high end of the cu... be unsymmetrical about zero or stillwater. The basic vertical spectrum was truncated at a BM of 3.75×10^3 ft-tons (1 ton=2240 lb/ft) based on results of fatigue crack growth sensitivity studies.* A total of 24.8×10^6 cycles represents the total cycles for a ship lifetime of 20 years, seven of which are active at sea.

The maximum BM shown in Figure 7 is 80×10^3 ft-tons corresponding to the highest (10° or 1 time) response to waves. The maximum BM for the model is obtained when that value is multiplied by the cube of the model scale. The ASEM bending moment for static testing is simulated by applying test loads as shown in Figure 8. The calculated loads at each hydraulic actuator to be transmitted to the model during each load level are given in Appendix D for the four types of tests completed.

A lateral moment cycle is associated with each vertical moment cycle. Therefore, the number of vertical and lateral cycles are the same. The lateral BM spectrum is assumed to be the same as the vertical, except the maximum lateral BM, 40×10^3 ft-tons, is but one-half of the maximum vertical BM.[7] This is a conservative assumption. Half of the lateral cycles lag the vertical by 60° and the other half lag by 240°. This is so because half the time one side of the ship is assumed to be the weather side and the other the leeward side.

As discussed in Reference 7, the BM spectra, vertical and lateral, are not exactly symmetrical. For most load levels the effect of this mean level is insignificant on structural life. Levels at and above the 90% load level are exceptions to this. The maximum whipping for these conditions combine with the OW bending moment such that the distribution of combined BM is 60% sag and 40% hog.

INSTRUMENTATION

A total of 1800 foil-type strain gages were installed on the ASEM for measuring applied strains (stresses were evaluated from these measured strains) and 28 linear potentiometers were installed for measuring deflections. Details of the strain and deflection measurements are discussed later. The purposes of the strain gage instrumentation were:

1. To measure stress distributions throughout the hull and superstructure to verify analysis and determine stress gradients.

---

*Marchica, N. V. and F. F. Borriello, "Fatigue Load Spectrum for the Aluminum Ship Evaluation Mode," Technical Memorandum TM 76-173-25 (Dec 1976).

2. To measure stresses arising from the simulation of loads.

3. To measure local stress concentrations for input to fatigue and crack growth analyses.

To meet these objectives the following analytical and experimental procedures were used for determining strain gage locations:

1. Reproduction of all strain gage locations used for the static evaluation of a rigid vinyl model (RVM) of the ASEM shown in Figure 9. (The ASEM RVM resulted from the modification of an existing RVM of a planing craft with identical hull form. The main deck and deckhouse of the RVM planing craft were replaced with a scaled version of the ASEM structure.)*

2. Extension of longitudinal and transverse gage locations from item 1 above to more accurately predict the longitudinal and transverse stress distributions.

3. Location of stress concentrations based on engineering judgment for areas of expected maximum stress.

4. Utilization of the NASTRAN finite element model (FEM) output to supplement items 2 and 3 above. A discussion of this model is found in the next section.

Appendix E contains details of the strain gage specifications as well as location nomenclature used to locate gages on the model.

Data recording capability was provided by a Xerox 550 computer. Signal conditioning and calibration for each strain gage channel was included in the software of the computer and separate calibration and conditioning was not required. As mentioned earlier, 600 channels were read by the computer at a given time. This meant that, to record the 1800 channels used for the static test, switching was required twice during the test. Each channel was sampled many times per second, a ' an average was calculated and recorded. Recorded data were stored on magnetic tape for subsequent on-line or remote processing.

---

*Rodd, James L.; Ford, Harry M.; Johnson, Robert E.; "Rigid Vinyl Model Development of Structural Modifications for the Aluminum Ship Evaluation Model (ASEM)," DTNSRDC Technical Memorandum TM 80-173-1 (Sep 1980).

FINITE ELEMENT ANALYSIS

An elaborate NASTRAN finite element model (FEM) was made of the ASEM (see Figure 10). It was composed of 6000 elements and 7500 degrees of freedom. Because of the great expense involved in running an extensive finite element model, structural symmetry was utilized wherever possible. For simplicity, the stiffeners were "smeared" into the plate elements. The loads for the FEM were applied at grid points which were located along the frames where the actual loads were applied to the ASEM. The hatch openings were not extensively broken up into small elements describing exact geometry. Three types of loading conditions were applied to the FEM of the ASEM: vertical hogging loads (Force 1), vertical sagging loads (Force 2), and lateral loads (Force 3). As might be expected, a large amount of data was produced. Throughout this report, stress values obtained from the FEM analysis supplement many of the figures showing stress plots.

Several generalized findings can be gleaned from examination of the data obtained from Force 1 loading (corresponding to 80 percent BM loads):

1. Between Bulkheads 32 and 48, the main deck exhibits moderate stresses (6 ksi tension) due to longitudinal bending.
2. Between Bulkheads 48 and 64, the 01 level longitudinal bending stresses reach 9.3 ksi tension.
3. Between Bulkheads 40 and 64, the stresses near the gunwale approach 5.6 ksi tension, and the stresses at the main deck centerline approach 5 ksi tension.
4. The maximum stress at the keel was 7.5 ksi compression at Bulkhead 56.
5. Between Bulkheads 16 and 40, the hull above the chine exhibits high shear stresses (5.5 ksi).

ASEM DEFLECTION

Before the static tests were conducted, linear potentiometers were positioned along the length of the ship corresponding to load cell locations. As the model was vertically and laterally loaded for each test, the resulting displacements were monitored. It was important that the structure on which the potentiometers were attached be rigid relative to the model, and that the potentiometers be firmly attached. If this were not the case, the potentiometers could possibly move and cause erroneous deflection readings. Appendix D contains the deflections obtained from the four static tests on which the data analyses are based.

A ship at sea experiences a hogging (or hog) condition when it is positioned on the crest of a wave at midships, thereby causing the forward and aft ends of the ship to displace downward. A sag condition results when the ends of the ship are on the crests of two successive waves, and midships is at the trough. For the ASEM, a vertical hog condition was achieved when the hydraulic actuators near midships were extended. Since the lateral jacks were positioned on the starboard side of the model, a lateral hog condition resulted when the jacks at midships were extended thus causing midships to move to port.

Plots of the model displacements at maximum static test load (80%) for Tests 1, 3, and 4 are shown in Figures 11, 12, and 13, respectively. At the midship keel (near Bulkhead 56) the maximum hog to maximum sag displacement was approximately 1.5 in. Test 2 was the lateral loading test. As seen in Figure 14, at midships (near Bulkhead 56) the displacement from maximum lateral hog to maximum lateral sag was approximately 1 in.

HULL-DECKHOUSE INTERACTION

Normally, a ship is designed based on only the hull longitudinal structure (shell plating, decks, longitudinal bulkheads, etc.) resisting the loads created by the sea invironment. Actually, however, the deckhouse may act as an integral part of the hull in resisting these loads. Depending on the size of the deckhouse and the way it is attached to the hull, the loads or stresses in the deckhouse may be substantial. A long deckhouse of one level with no expansion joint will result in large stresses both on the upper deck and house side.[8] As expansion joints are added to the deckhouse, the magnitude of stresses in the deckhouse will generally decrease. Stress levels in the section near midships will remain about the same. Indeed, deckhouses may be fully or partially effective in resisting bending loads. This reality is becoming more apparent to the Navy as ship classes such as FFG-7 and DD-963 with continuous aluminum deckhouses become older and experience cracking problems due to primary bending loads absorbed by the house.

In the case of the ASEM, the hull and deckhouse were fabricated separately. They were then shipped to the test facility where the deckhouse was welded to the hull. Also, two 3/16-in. thick, 4-in. wide flat bars were welded to the upper surface of the main deck at Bulkheads 32 and 92 (front and rear of the deckhouse).

These flat bars were attached to the deck by fillet welds at both the forward and aft ends (one bar on each end of the deckhouse) (see Figure 15). The attachment locations of these bars were determined by the length dimension of the deckhouse. The distance between Bulkheads 32 and 92 above the main deck was approximately 4-in. greater than the distance between the bulkheads below the main deck. Therefore, the forward-most and aft-most bulkheads that were above the main deck did not exactly line up with those below deck. Also, this type of offset was true for a number of other deckhouse bulkheads. Table 5 summarizes the bulkhead misalignment. Note that the greatest misalignment was at Bulkheads 32, 86, and 92. This was a concern mainly because the model was loaded through the bulkheads. However, as it turned out, this offset did not appear to create any local structural problems such as buckling.

The joint details between the main deck and the bulkheads interior to the deckhouse were somewhat different than those at the front and aft ends of the deckhouse (see Figure 16). The bulkhead plates were fillet welded forward and aft to the upper surface of the main deck where they landed. A 3/16-in.-thick gap was left between the main deck and bulkhead stiffeners (the stiffeners were on either the forward or aft side of the bulkhead). A 3/16-in. thick, 2-in. wide flat bar was then positioned between the stiffeners and deck. The stiffeners were welded to the flat bar and the flat bar was fillet welded to the deck at the accessible edge. Based on inspection of test results, this type of detail proved adequate during testing.

The following section contains a detailed explanation of the hull deckhouse interaction and subsequent high strains.

FASHION PLATES AND ACCESS HATCH OPENINGS

High stresses at the forward and aft ends of the deckhouse and discontinuities near midships can eventually cause fatigue problems. These areas of concern are shown in Figure 17 as A, B, and C (port and starboard). Also, high stresses at access hatch openings are of concern.

The discontinuity at Location A creates high shear forces at the forward end of the deckhouse, and acts as a stress raiser for the local deckhouse structure. In the case of the ASEM, the integral hull-deckhouse increases the effective moment

of inertia of the hull. Stresses on the order of 15 to 20 ksi for the 80% maximum BM condition were monitored during the static (precyclic) tests. This area as well as other highly stressed areas in the deckhouse were of major concern. It was felt that the high stresses in the as-fabricated structure would eventually cause premature cracking. In April 1977, the decision was made to initiate an extensive study of the stress areas of concern by use of a rigid vinyl (PVC) model of the ASEM. Details of the results of these tests were reported informally.* Basically, a number of structural modifications were made to reduce strains in the PVC model such that similar modifications to the aluminum model would do the same. Table 6 summarizes the PVC test results for a number of stress areas of concern as well as for the eventual ASEM structural modifications. For the most part, side shell doublers and coaming doublers were used at the hatches. Port and starboard fashion plates were used at the intersection of Bulkhead 32 with the main deck, and at the intersection of Bulkhead 56 with the 01 deck. The fatigue performance of these structural modifications are covered in a report[6] on the ASEM cyclic test results.

Most of the access hatch openings in the deckhouse sides were strain gaged to monitor any unusually high strains during the static tests. Since high strains were recorded in some instances, the possibility of premature fatigue failures during the cyclic testing existed. As mentioned earlier, the reduction of strains in the rigid vinyl model hatch opening were examined, with the result that structural modifications to the ASEM were recommended. The locations of the deckhouse side hatch openings are shown in Figure 18. A typical hatch opening is shown in Figure 19.

The decision was made to increase the thickness of the plate material immediately adjacent to the hatch coaming. A doubler plate (equal in thickness to the deckhouse side plating) was plug welded to the existing plate along the stiffeners, as well as fillet welded at the edges of the new doubler plate. The edges were located at the adjacent frame or bulkhead and at the main deck and 01 deck level. The coaming thickness was increased (doubled) by welding an additional coaming of the same thickness and width to the existing coaming. The resulting structural modification to the hatch openings are shown in Figure 20.

---

*Rodd, James L. et al., "Rigid Vinyl Model Development of Structural Modifications for the Aluminum Ship Evaluation Model (ASEM)," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

The average stress reading associated with a hatch coaming gage was over 10 ksi; indeed, one reading was as high as 15 ksi. Static tests run after the modifications of adding a doubler plate and coaming doubler indicated lower strains at similar locations. This would certainly indicate that the problem of premature fatigue cracking would be alleviated. The behavior of this type of "fix" relative to fatigue is discussed in another report.[6]

In addition to high strains (stresses) at the coamings, the plating adjacent to the coaming also had high strain readings. These areas were not extensively regaged after the doubler plate additions; however, those that were gaged showed a substantial reduction in stress. In an actual design, implementing a fix such as the one completed with the coaming would probably be necessary. However, instead of welding two pieces of coaming together to obtain a certain thickness, a single piece of the desired thickness should be used.

STRAIGHTNESS OF BULKHEAD STIFFENER FLANGES BETWEEN MAIN DECK AND 01 DECK

Since the model was loaded through its bulkheads, the straightness of the bulkhead stiffeners were of concern. Excessive stiffener warpage might have resulted in local or total buckling of the bulkheads during testing. Therefore, a survey of the degree of warpage of the stiffeners relative to vertical was conducted (Table 7). Bulkheads 32, 40, 48, and 80 had the least average warpage of the stiffener flanges, and it was all in the forward direction. Bulkheads 56, 64, 86, and 92 had the greatest average stiffener flange warpage, and here it was all in the aft direction. One stiffener flange on Bulkhead 92 was warped as much as 0.75 in. Additional information can be found in a report[9] on stiffener and bulkhead deformation surveyed during the cyclic testing of the model.

SPECIAL CONSIDERATION FOR ASEM STATIC TESTING

With a test of this physical size and complexity, not all problems could be foreseen. In most instances, with careful thought, potential problems can be averted by modifications to the test fixture, test procedure, or model. When possible, these modifications or changes should be done in such a way as to not adversely

effect the test results. A number of "lessons learned" by the authors relative to how this information can benefit future tests of a similar nature are highlighted next.

COUPLING OF LOAD FRAMES/STRUCTURALLY REINFORCING LOAD FRAME

Originally, the test fixture was designed so that a number of load frames were longitudinally coupled together at the centerline (load frames at Bulkheads 64, 72, and 80). However, this meant that if one of the load frames became displaced fore or aft from the desired plane of loading, the remaining attached load frames would also displace. Lateral buckling of the originally designed load frame couplings caused this kind of problem. The solution was to not have the load frames coupled, and to strengthen the lower section of the load frame by welding steel plates between the edges of the flanges. Thus, the I-Beam effectively became a box beam, thereby inhibiting lateral buckling or tripping of that portion of the load frame.

REDESIGN, FABRICATION, AND FOAM REINFORCEMENT OF PARTIAL BULKHEAD 72

The "as built" frame at Bulkhead 72 was not constructed to carry the 95,000-lb load needed to insure the proper BM through the model during testing. The area between Bulkheads 64 and 80 was designated for the engine room and, therefore, this area was initially open. If the space was to remain as built, the load applied would then buckle and collapse the frame. Therefore, a redesign was required. Because of the restraints imposed by the access to the model, the design took the form of truss-type framework (Figure 21). The redesign was constrained in the sizing of members by (1) the openings built into the model to supply materials into compartments and (2) by allowing the members to carry a maximum of only 6 ksi of stress.

A frame analysis using the computer program STRESS[10] was used in the design of the "framed bulkhead." A final design was determined and construction started in December 1976. Figure 21 shows the framework used in the ASEM at Bulkhead 72, both as originally built and as a redesign.

An additional problem recognized was that the floor at Frame 72 had no access to it, except for two 6-in.-diameter holes, and thus it could not be stiffened by welding on stiffeners. The floor was made of 1/8-in. plate and, unless it was stiffened, it would have buckled under the applied loads.

One solution to this problem was to use syntactic foam and fill the compartments under the innerbottom on both sides of Frame 72 (between Frames 69 1/2 and Frame 74 2/3) as shown in Figure 22. This foam was chosen for its light weight, ease of installation, and ability to sustain compressive loads. A full size wooden model was constructed to evaluate the procedure to fill the compartments with the foam and to determine the temperature produced by the foam as it cured. It was necessary to know the temperature because aluminum can become sensitized above 200°F and is then susceptible to stress corrosion cracking. Thermocouples attached to strip recorders were used to determine the curing temperature and to evaluate the filling procedure. Plexiglas was used on one side to act as a floor.

There were two tests. The first was to fill one side with the syntactic foam, and to pour the necessary resin all in one pour. The temperature given off during this test was approximately 206°F, which was unacceptable.

The second test was similar to the first except that the resin was poured in increments of 5 gallons per day. Three days were necessary to complete the procedure, and four pours were required to fill a compartment on either side of the bulkhead and port or starboard of the Center Vertical Keel (CVK). The maximum temperature was approximately 130°F. Although this temperature was acceptable, there was doubt as to whether a good bond had been made between the different pours. Also, there was a residual film of resin on the upper walls after the resin had settled to the bottom. A line of air pockets could be seen through the plexiglas floor where the different pours had settled.

Therefore, the procedure in the aluminum model was to pour two compartments (which were diagonal to each other) at a time. The resin was to be poured in the hole nearest to the keel. Thermocouples were placed in the compartments filled on the first day. The temperature recorded was below 100°F, which was an acceptable temperature.

Because the foam was poured into the center section, the resin tended to gel before it could spread outward to the outboard section. An attempt was made to fill the outboard sections by pouring resin in the outboard holes. It seems that little resin went into these confined areas and a possibility exists that the floor at Frame 72 may have been unsupported on the outboard edges. This was not a problem, however, since the unsupported depth of floor plating at the sideshell attachments was small enough to insure that no structural damage was sustained during either the static or cyclic tests.

CONCLUSIONS

The initiation, execution, and completion of all research associated with the Aluminum Ship Evaluation Model program has marked a significant milestone in ship structural research. This has been the first and only time that the Navy has had the combined resources for performing extremely large, complex, and controlled laboratory experiments on complete ship structures. Many new technologies were explored and many lessons learned. The proven capability now exists, in terms of facilities, software, hardware, and experienced personnel, to perform future tests of this nature for purposes of specific design validation efforts or advanced development. Future tests should be able to be performed using less time and resources due to the significant experience gained through these ASEM tests.

Specific detailed conclusions regarding the ability of aluminum to perform as a hull material cannot be made in a total sense without examining the results of the cyclic test. From a static standpoint, the aluminum-hull-girder (ASEM) behaved in accordance with beam theory and remained linear throughout the range of loads and stresses applied. Therefore, from this test it can be concluded that aluminum is an acceptable material for hull girders, from a quasi-static load viewpoint, when designed to maximum stress values consistent with those applied to the ASEM. Additional conclusions regarding specific geometric behavior will be left to the reader. This is done to allow the reader to use the vast amount of data presented herein to draw specific conclusions which concern his detailed problem. A summary of the major, more general conclusions follows.

LOADING METHOD

The method used in applying loads to the ASEM is unique in large scale testing. Normally, in the aircraft industry large-scale static tests are performed with distributive pads or bladder loading, and cyclic tests are performed with "wiffle-tree" arrangements. These methods were not feasible for the ASEM tests and, consequently, the load-frame or load-ring arrangement was developed. In spite of some initial problems, this loading method proved very successful. Lateral instability of loading-frame lower-transverse members was easily corrected by making the I-beams into closed cells and this problem could have been avoided if all out-of-plane deflections had initially been considered. Fore-and-aft restraint of the load frames relative to the model was required to maintain their alignment and stability. This became even more apparent the longer the testing progressed, due to rubber-pad aging and creep. Tying the frames to each other proved unsuccessful; however, attaching small local restraints to the hull allowing them to provide unattached stops to the load frames proved very successful. The method of loading through rubber pads into the bulkheads worked well.

COMPUTER CONTROLS AND SAFEGUARDS

For the most part, these sytems also worked well. Initial problems in debugging a new system were technically overcome. Desired loads were achieved within a few percent. Computerized data acquisition and analysis performed well, although long term stability and system noise did present problems. The development of more sophisticated software and hardware as the test program continued, essentially resolved all earlier problems.

DECKHOUSE BEHAVIOR

A long continuous deckhouse, like the one on the ASEM, is very effective in absorbing primary hull-girder bending loads. This can be beneficial in that it reduces primary hull stresses; however, significant primary stresses are then absorbed by the house. This in itself is not necessarily a problem if the deckhouse is properly designed to withstand those stresses. The ASEM deckhouse, on the other hand, was not properly designed to withstand the magnitude of primary stress that it eventually experienced.

The deckhouse was designed using conventional Navy practice, which, up to the time of the ASEM design, had proven acceptable. At that time, little or no experience existed with long, continuous, integral deckhouses. Structural discontinuities, terminations, transitions, and conventional structural details as originally designed in the ASEM deckhouse proved inadequate. Smaller scale modeling and analysis resulted in structural changes such as fashion plates, inserts, and extended coamings which did significantly reduce high stresses when applied to the ASEM. Many of these changes would not be considered "conventional" Navy practice.

ANALYTICAL AND SMALL MODELING STRAIN PREDICTIONS

A comparison between measured strains on the ASEM, the RVM, and predicted values from the finite element model shows generally excellent agreement. In an overall sense, the behavior of the integral deckhouse can be properly predicted using analytical and small modeling techniques. For local detail stresses at discontinuities and notches, a parallel conclusion cannot be made. The element sizes used for the NASTRAN model and the gage sizes used on the RVM preclude any detail stress comparison. The RVM did, however, more accurately predict stresses in areas of high gradients than did the NASTRAN model used in our analysis.

The extensive amount of data presented in this report can be used for analyzing a large number of related problems. For example, stress gradients around openings and ways of reducing them can be examined utilizing ASEM data. Load/stress sensitivities for many details and local geometries can be examined. Combined stress effects of vertical and lateral bending can also be analyzed. The reader must be careful, however, when using any large-scale test data, to ensure that any local effects due to testing, or anomalies due to load simulation have been taken into account. In the case of the ASEM static tests, these cautions would apply mostly to bulkhead stresses.

ACKNOWLEDGMENTS

The authors thank the numerous individuals and organizations that were involved with the ASEM project throughout the years. We would especially like to thank DTNSRDC's Code 1706 for their assistance, and the many test mechanics and Cooperative Education students who have worked on and contributed to this project.

REFERENCES

1. Pohler, C.H. et al., "A Technology Base for Aluminum Ship Structures," Naval Engineers Journal, Vol. 91, No. 5, pp. 33-43 (1979).

2. Beach, Jeffrey E. and Robert E. Johnson, "A Guide for the Use of Aluminum Alloys in Naval Ship, Design and Construction, Vol. I. Material Characteristics, Metallurgy and Properties," DTNSRDC Report 83/057 (in preparation).

3. Beach, Jeffrey E., Natale S. Nappi, Sr., and Robert A. Sielski, "A Guide for the Use of Aluminum Alloys in Naval Ship, Design and Construction, Vol. II. Design for Shipbuilding," DTNSRDC Report 83/058 (in preparation).

4. Beach, Jeffrey E., William A. Palko, and Thomas W. Montemarano, "A Guide for the Use of Aluminum Alloys in Naval Ship Design and Construction, Vol. III. Fabrication," DTNSRDC Report 83/059 (in preparation).

5. Beach, Jeffrey E., Robert E. Johnson, and William E. Lukens, "A Guide for the Use of Aluminum Alloys in Naval Ship Design and Construction, Vol. IV. Maintenance and Repair," DTNSRDC Report 83/060 (in preparation).

6. Johnson, R.E. et al., "Aluminum Ship Evaluation Model Cyclic Test Results," (in preparation).

7. Birmingham, J.T. et al., "Development of a Fatigue Lifetime Load Spectrum for a Large-Scale Aluminum Ship Model," ASTM STP 671, pp. 121-143 (1979).

8. Vasta, J., "Lessons Learned from Full-Scale Ship Structural Tests," Society of Naval Architects and Marine Engineers (SNAME) Trans. (1958).

9. Sikora, J.P. and A.D. Swanek, "A Distortion Survey of an Aluminum Ship Model," Proceedings of the 1982 Joint Conference on Experimental Mechanics, Hawaii, pp. 483-487 (1982).

10. Massachussetts Institute of Technology, Department of Civil Engineering, "STRESS: A User's Manual, A Problem-Oriented Computer Language for Structural Engineering," the MIT Press (1964).

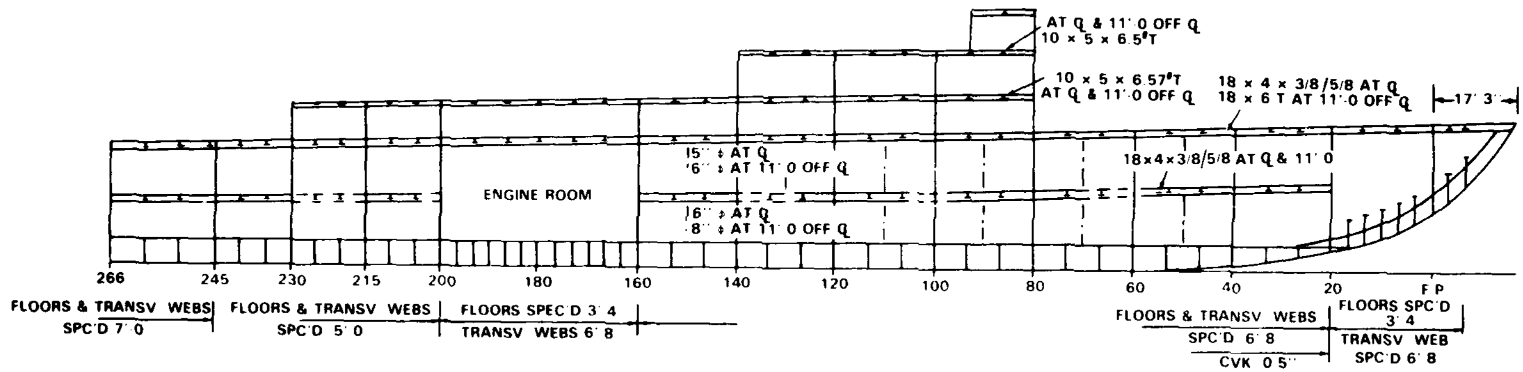


Figure 1 - Profile View of Destroyer Escort Design

PRECEDING PAGE BLANK-NOT FILMED

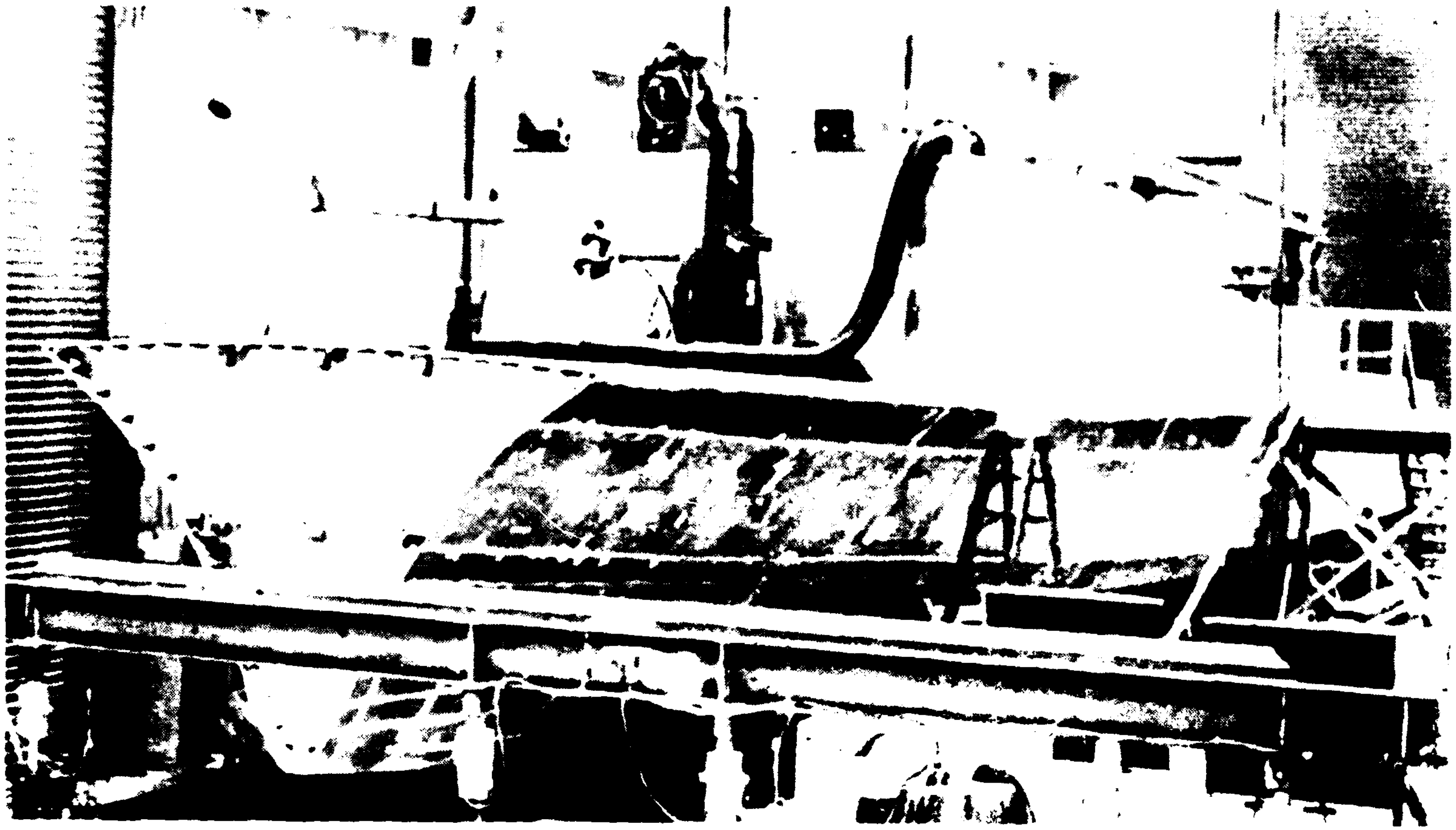


Figure 2 - The Aluminum Ship Evaluation Model

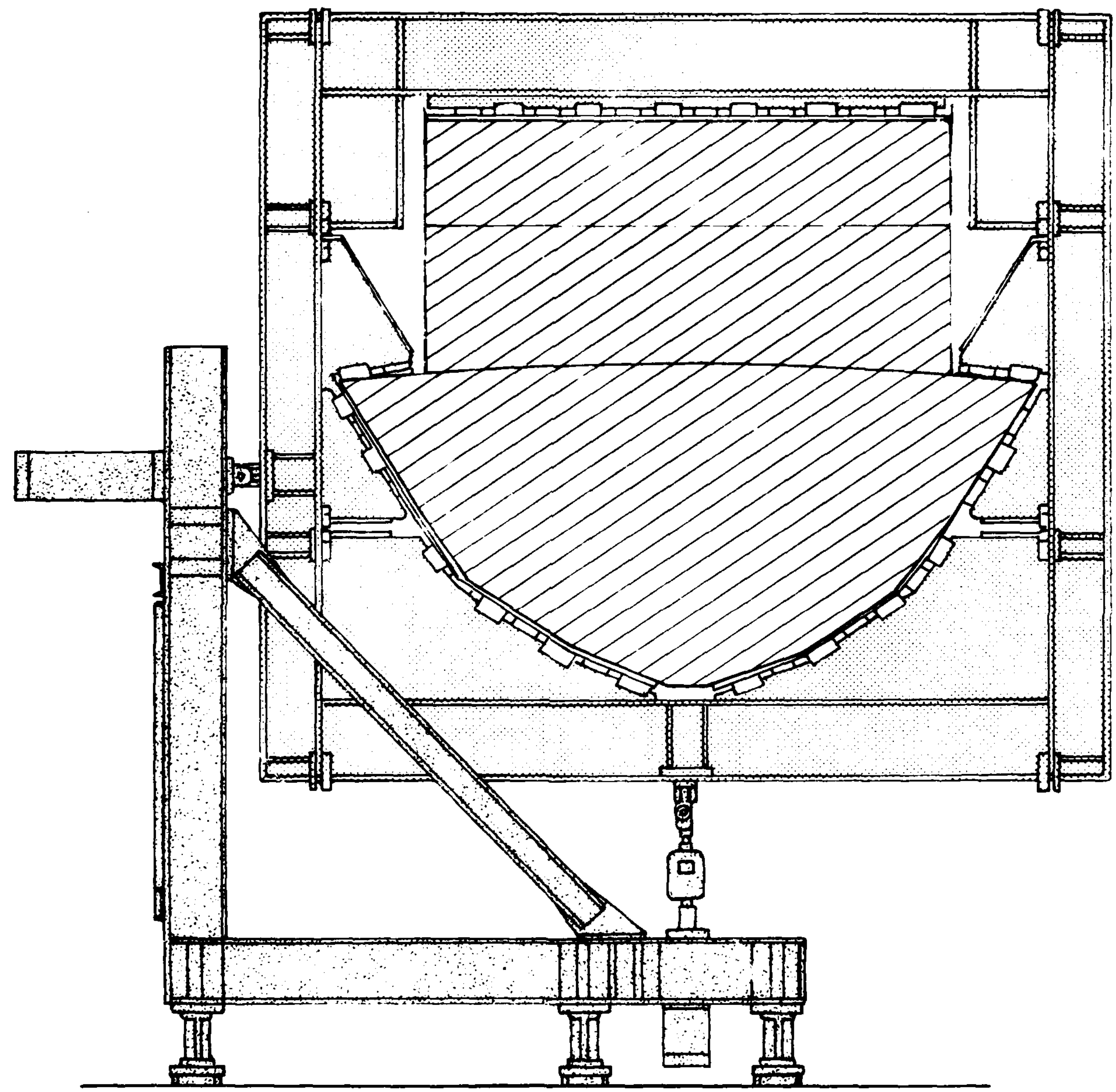


Figure 3 - Typical Load Frame Configuration

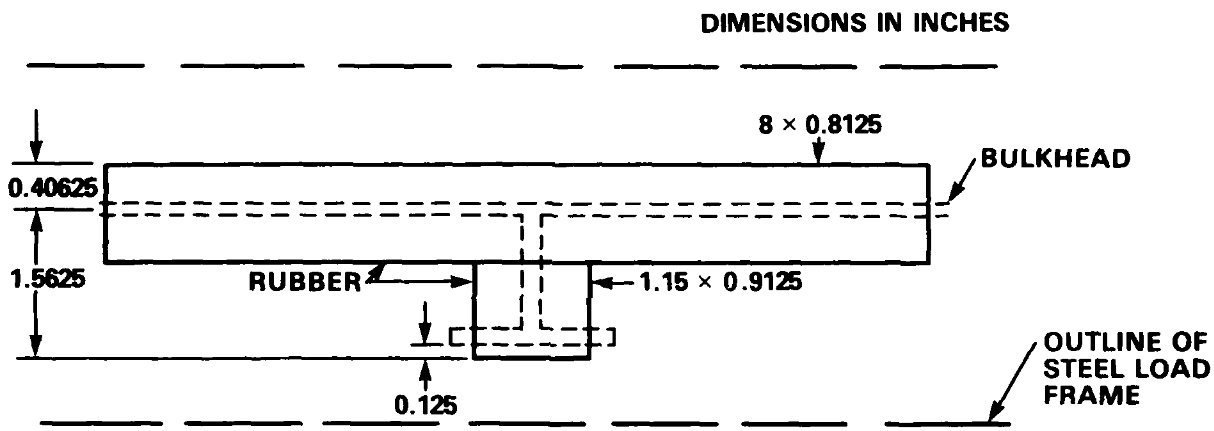


Figure 4 - Load Pad Configuration

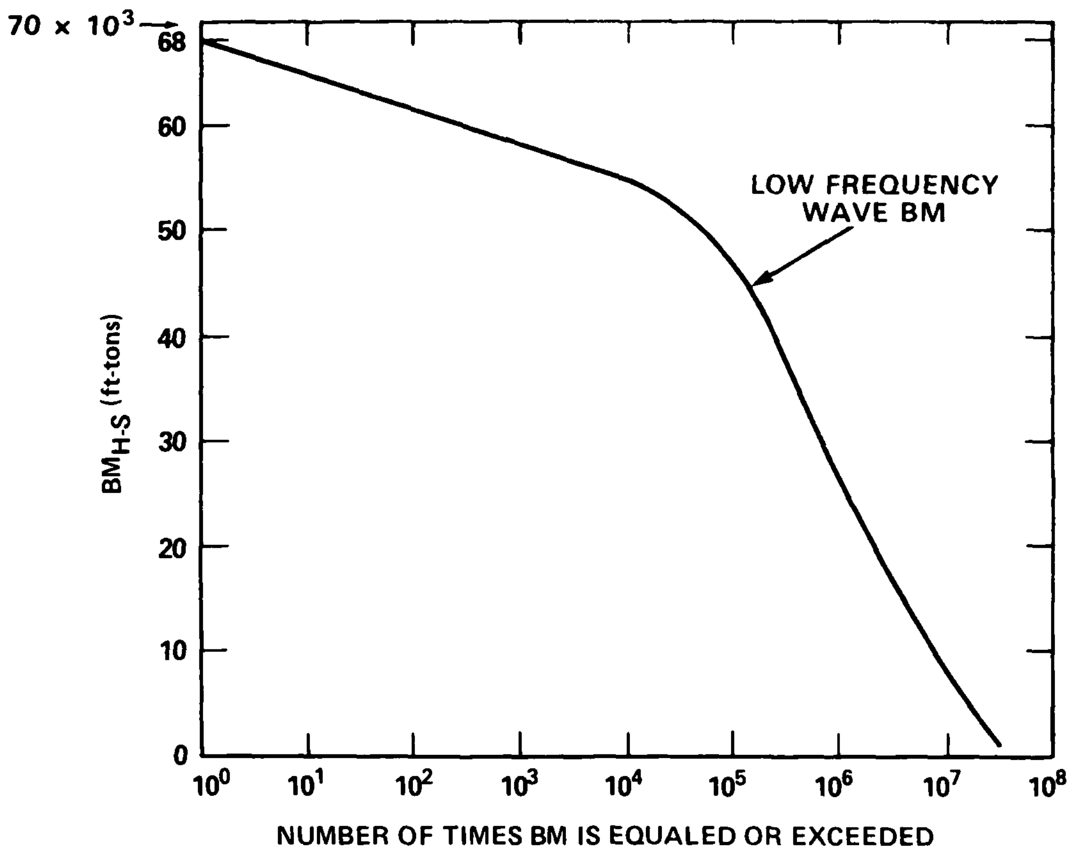


Figure 5 - Lifetime Midship Vertical Wave Bending Moment for a 300-Foot Aluminum Ship

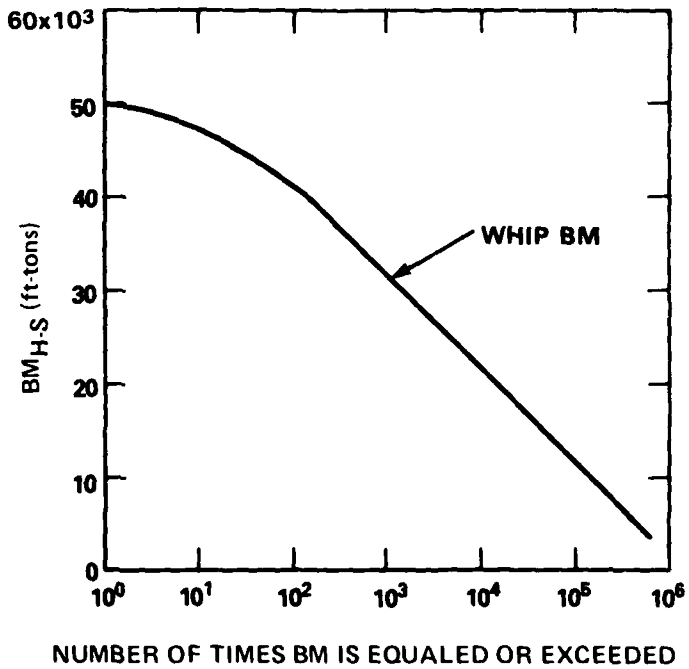


Figure 6 - Lifetime Midship Vertical Whipping Bending Moment for a 300-Foot Aluminum Ship

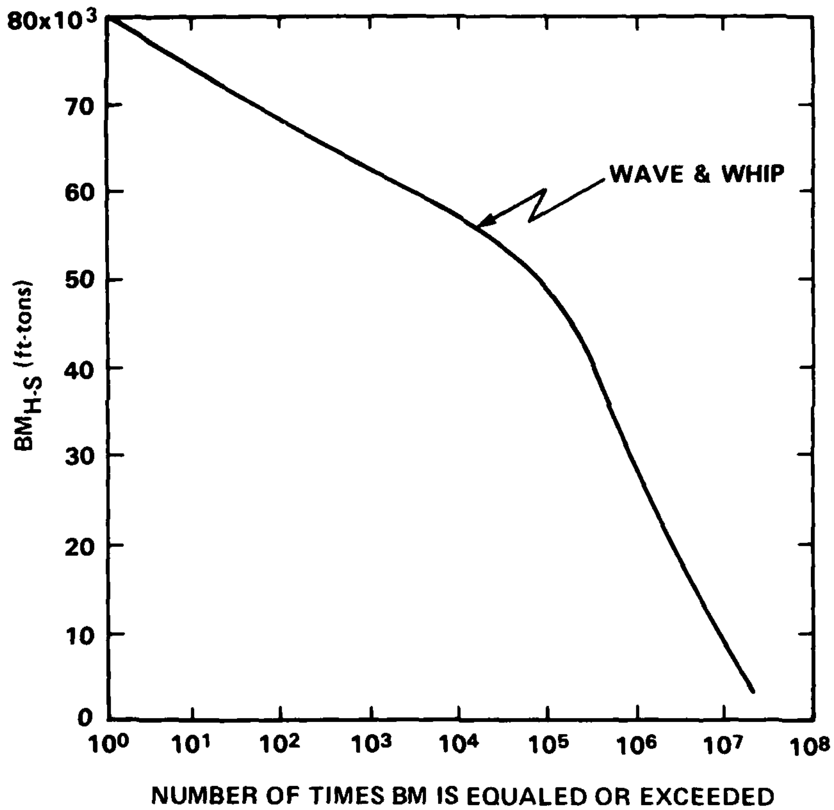


Figure 7 - Lifetime Midship Vertical Wave and Whipping Bending Moment for a 300-Foot Aluminum Ship

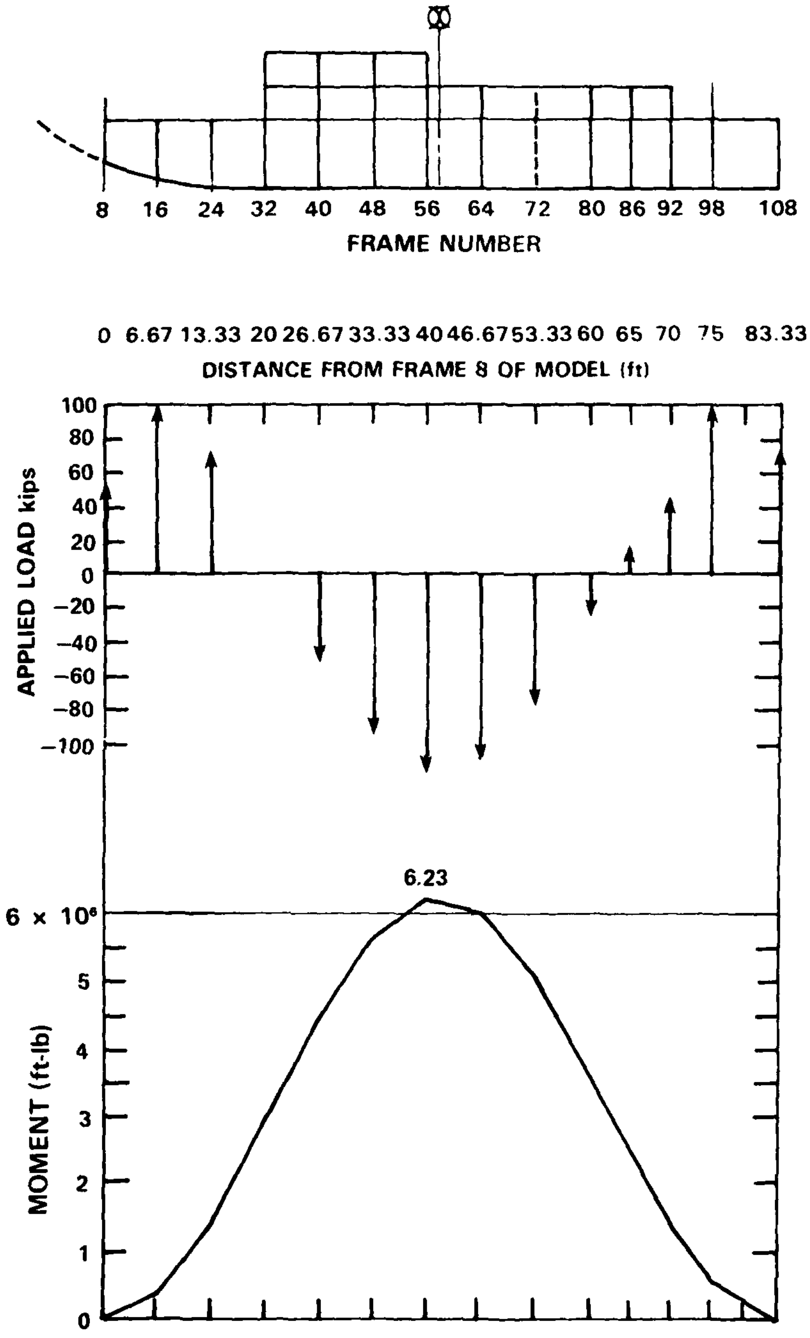


Figure 8 - 100 Percent Sagging Test Loads

Figure 9 - Rigid Vinyl (PVC) Model of ASPH

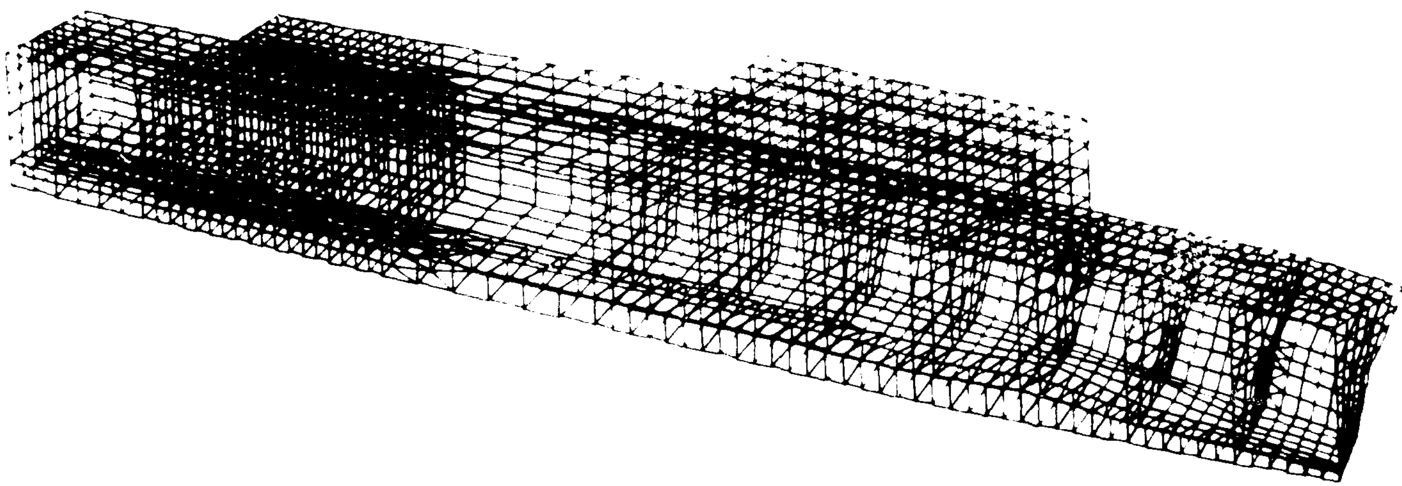


Figure 10 - NASTRAN Finite Element Model of One-Half of ASEM

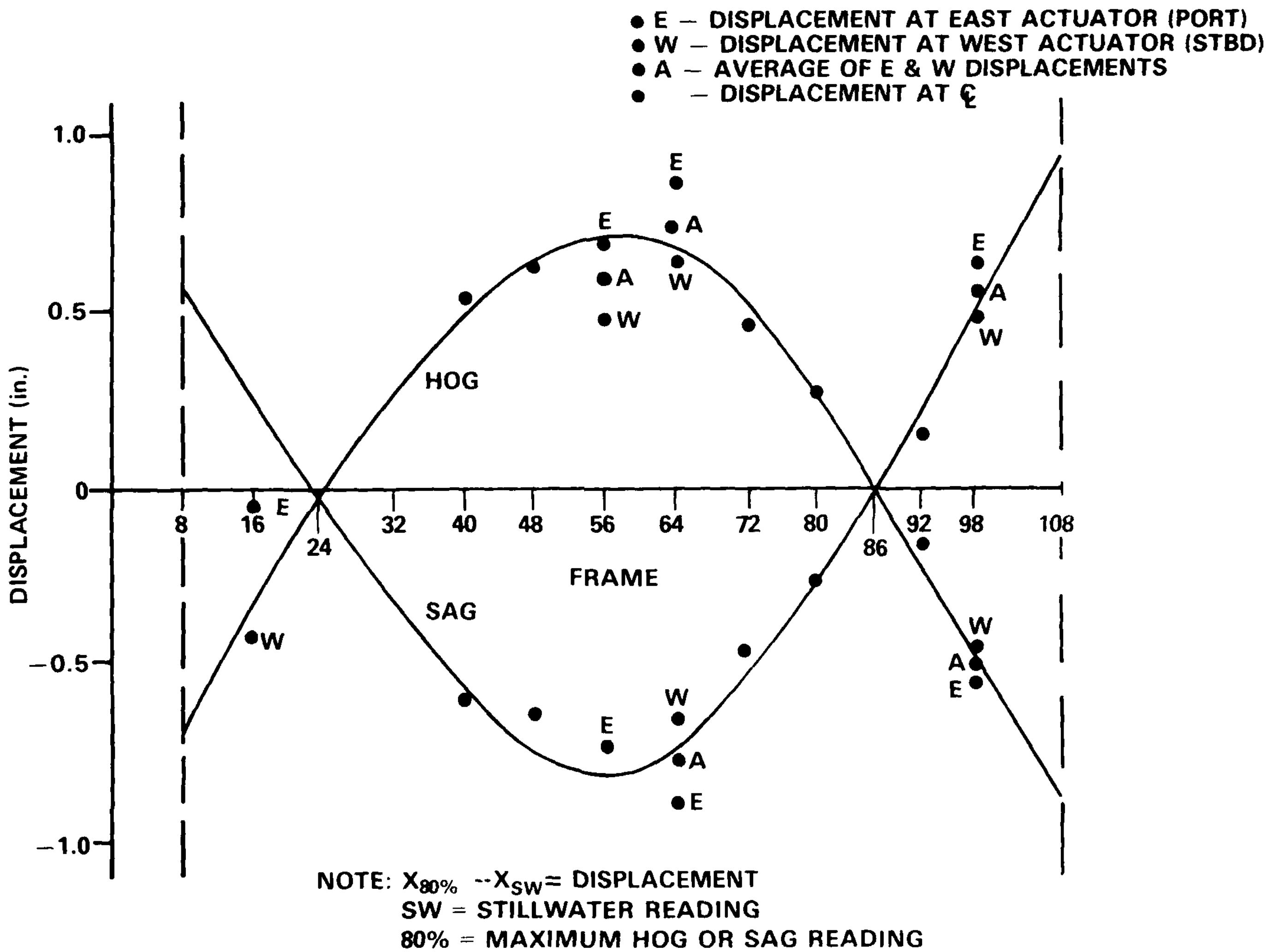


Figure 11 – Keel Vertical Displacement Relative to Stillwater at 80 Percent for Static Test on 9-22-77, with Vertical Loads

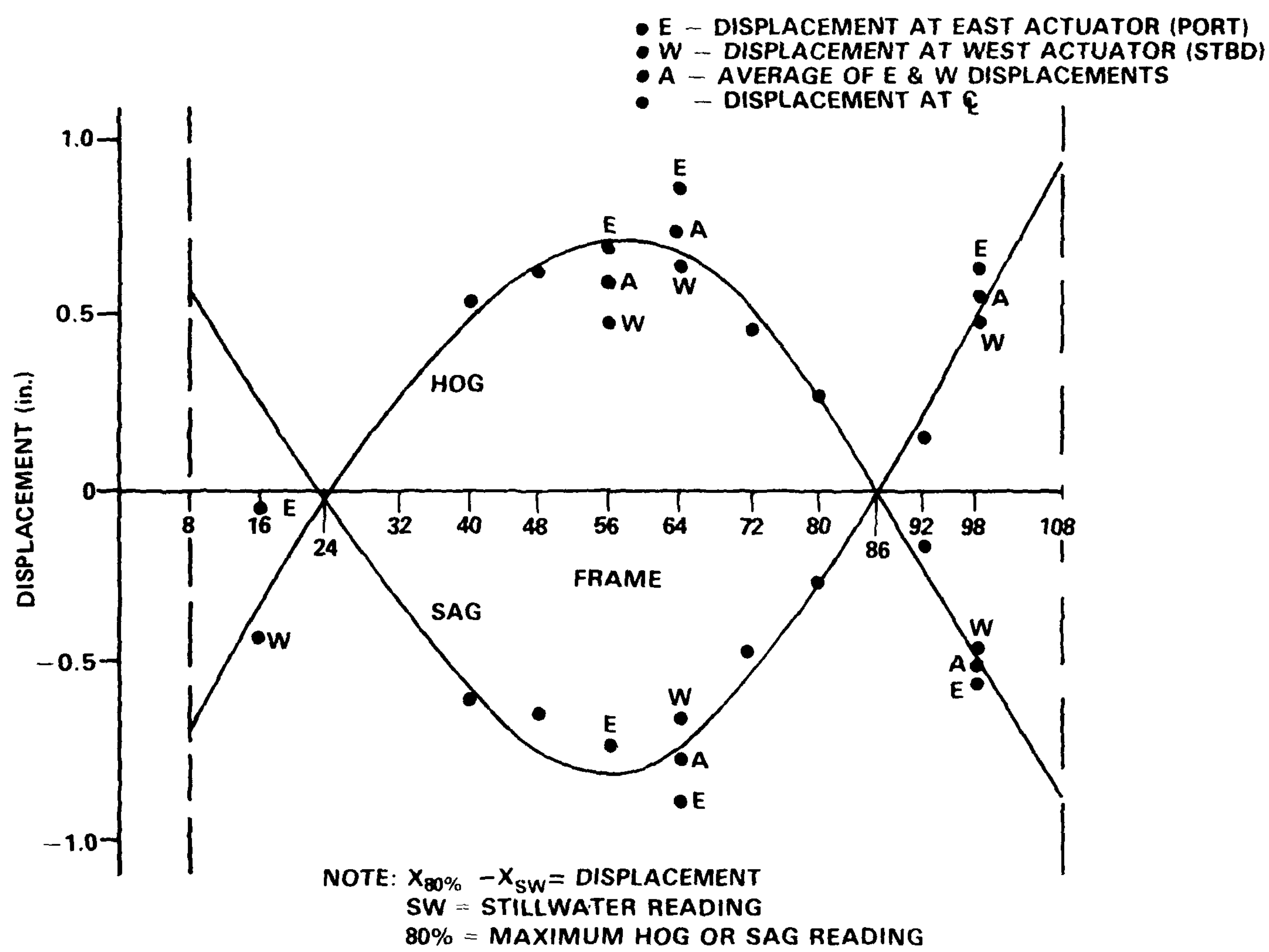


Figure 12 - Keel Vertical Displacement Relative to Stillwater at 80 Percent for Static Test on 10-26-77, Combined 240 Degrees

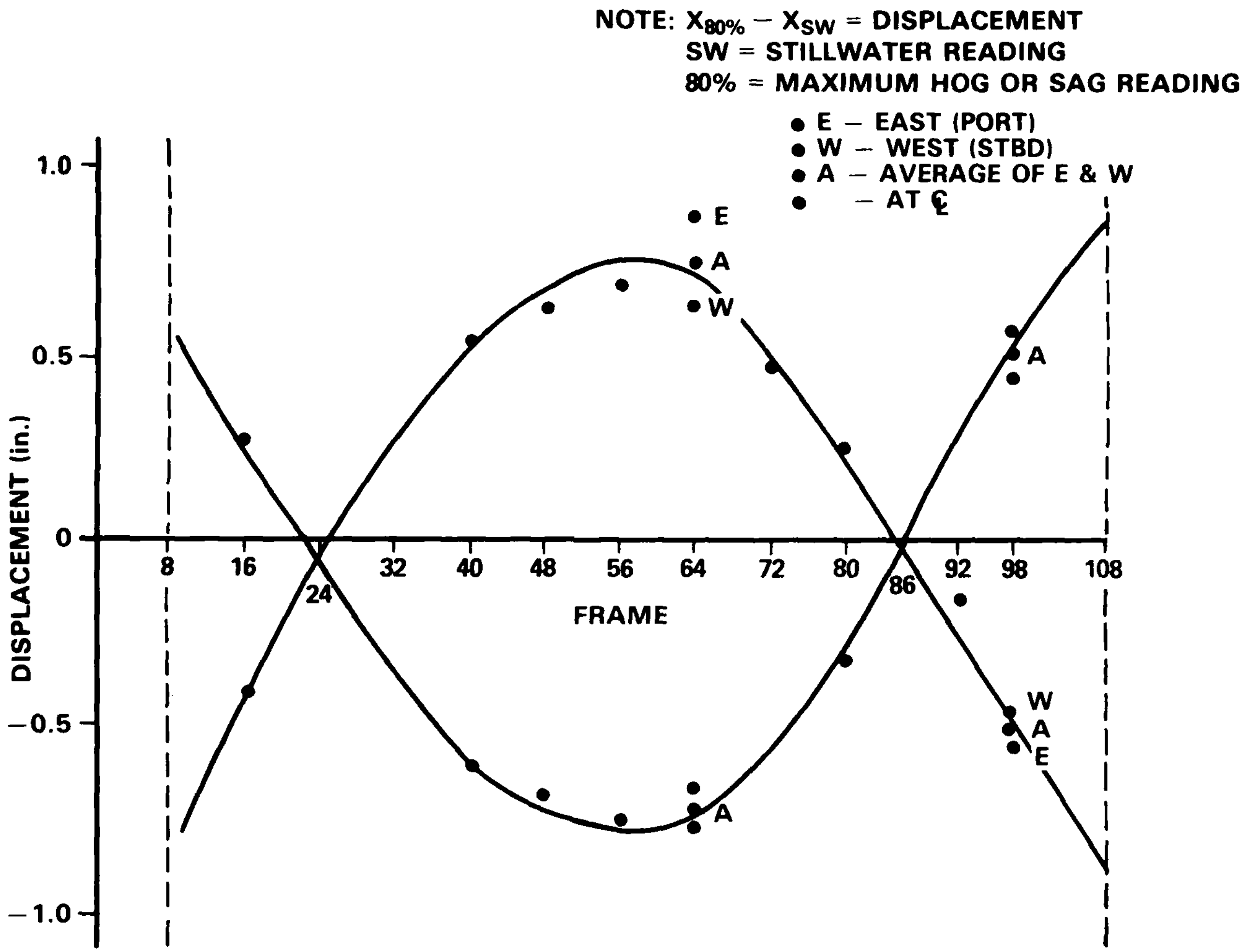


Figure 13 - Keel Vertical Displacement Relative to Stillwater at 80 Percent for Static Test on 10-14-77, Combined 60 Degrees

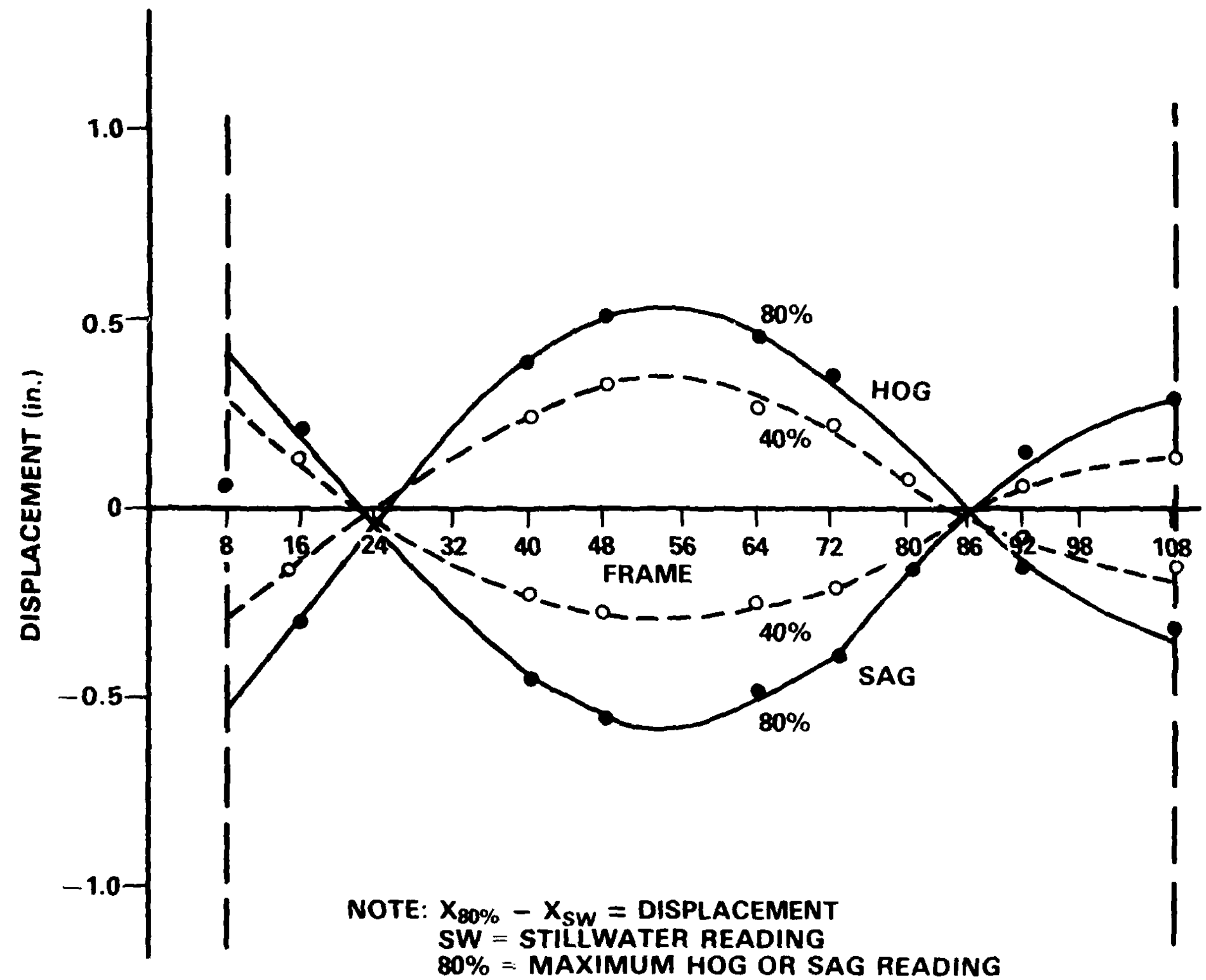


Figure 14 - Gunwale Lateral Displacement Relative to Stillwater at 40 Percent and 80 Percent for Static Test on 10-28-77, with Lateral Loads

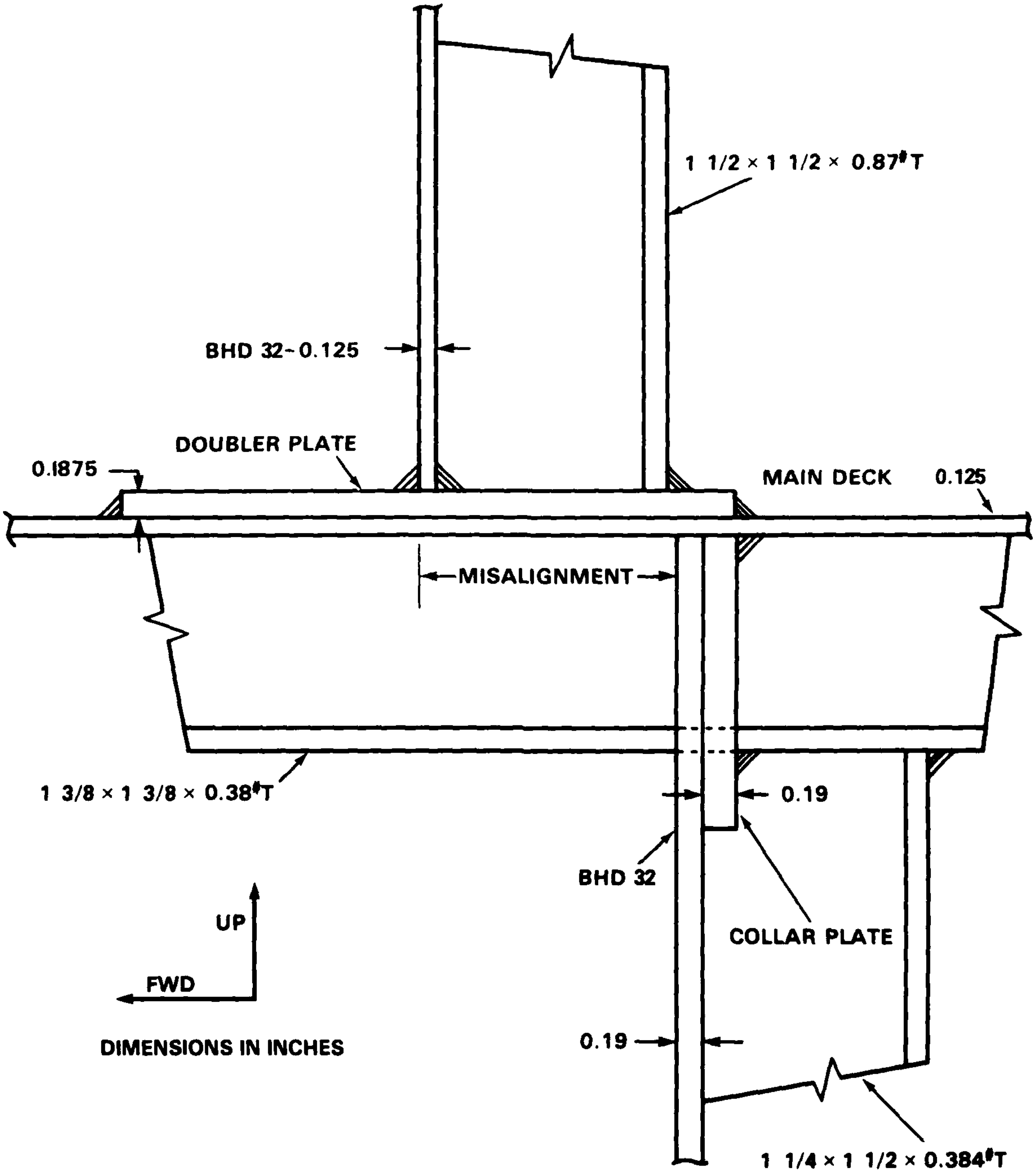


Figure 15 - Bulkhead Misalignment at Intersection of Bulkhead 32 and Main Deck

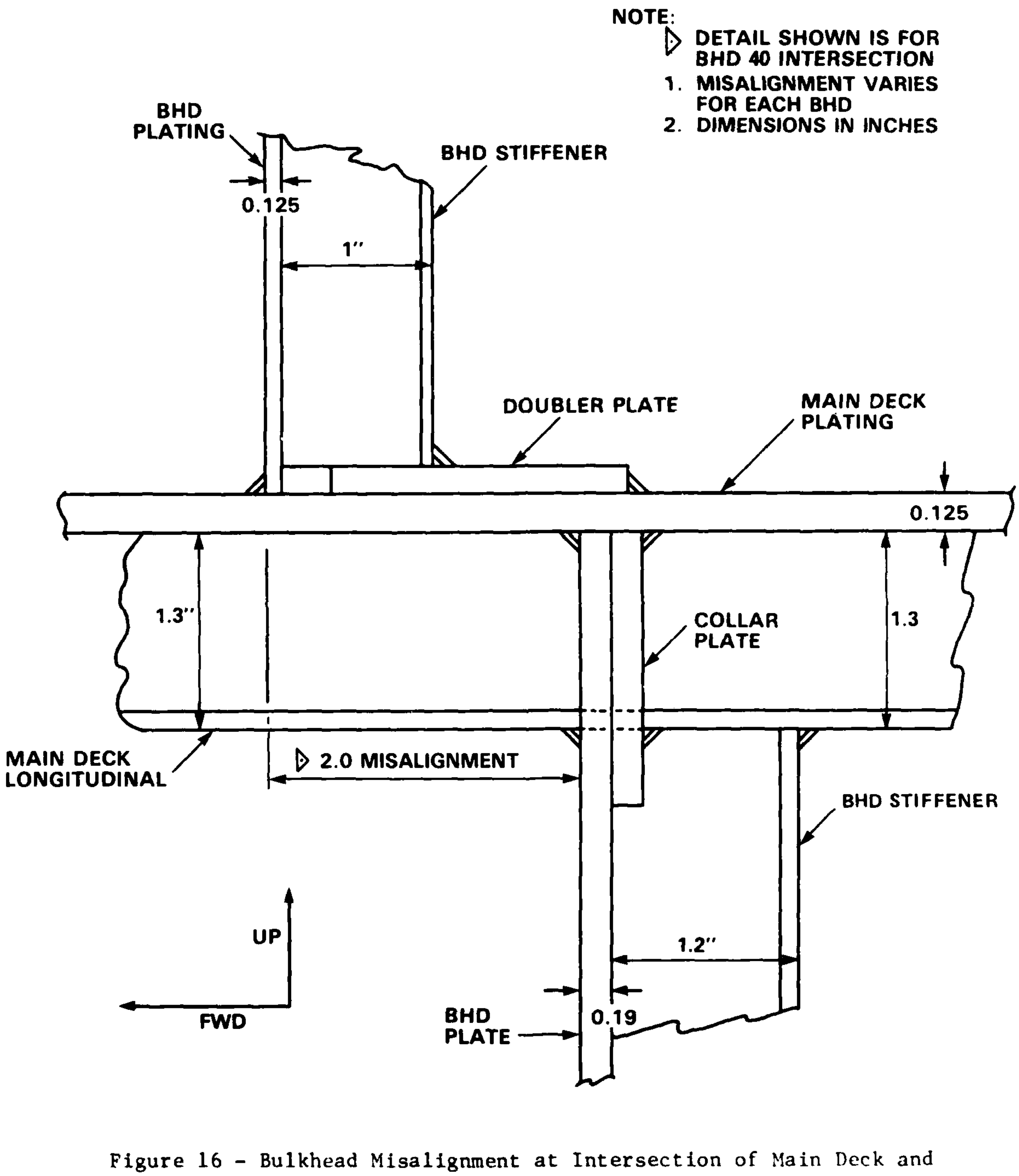


Figure 16 - Bulkhead Misalignment at Intersection of Main Deck and Bulkheads Interior to Deckhouse

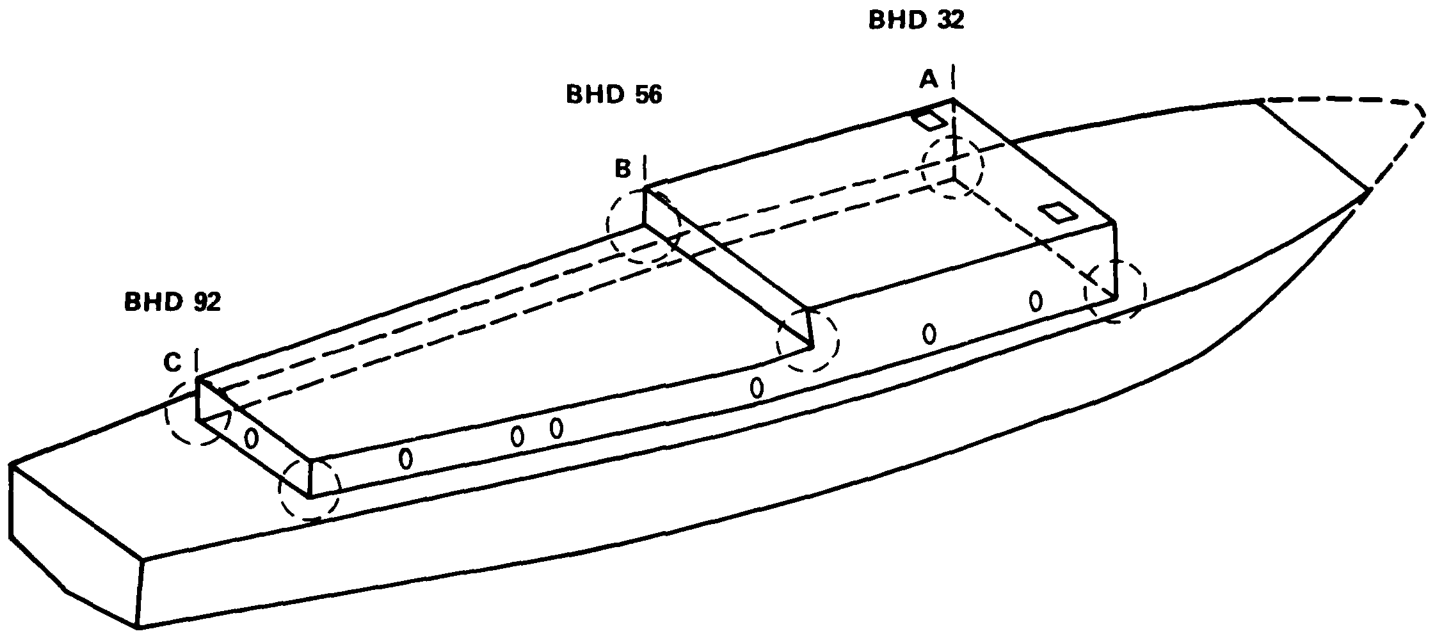


Figure 17 - Areas of High Stresses at Deckhouse Discontinuities

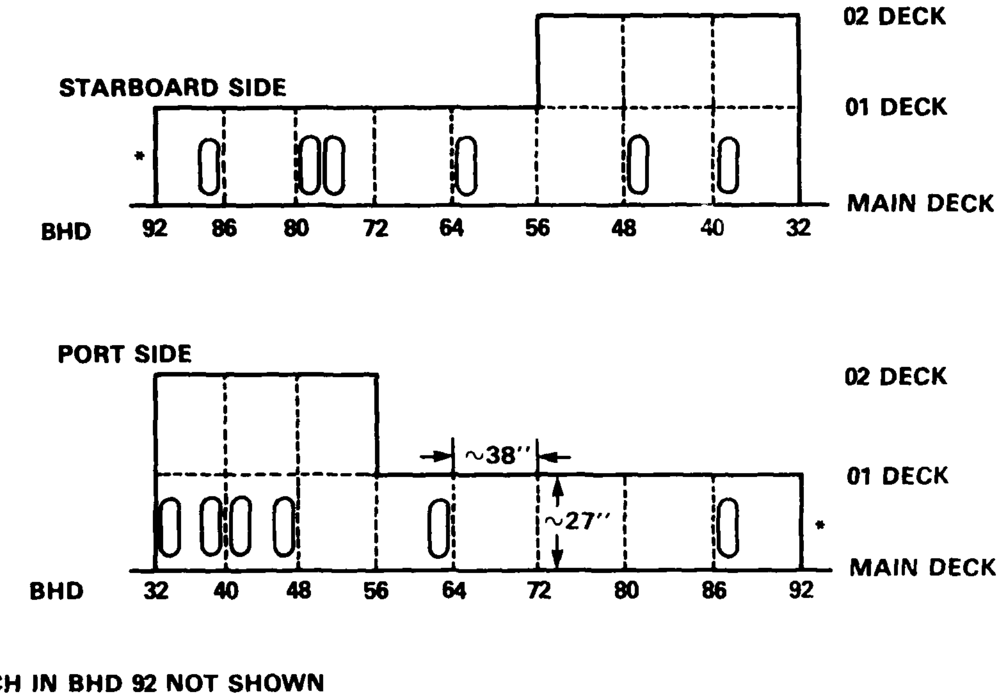


Figure 18 - Location of Access Hatch Openings in Deckhouse

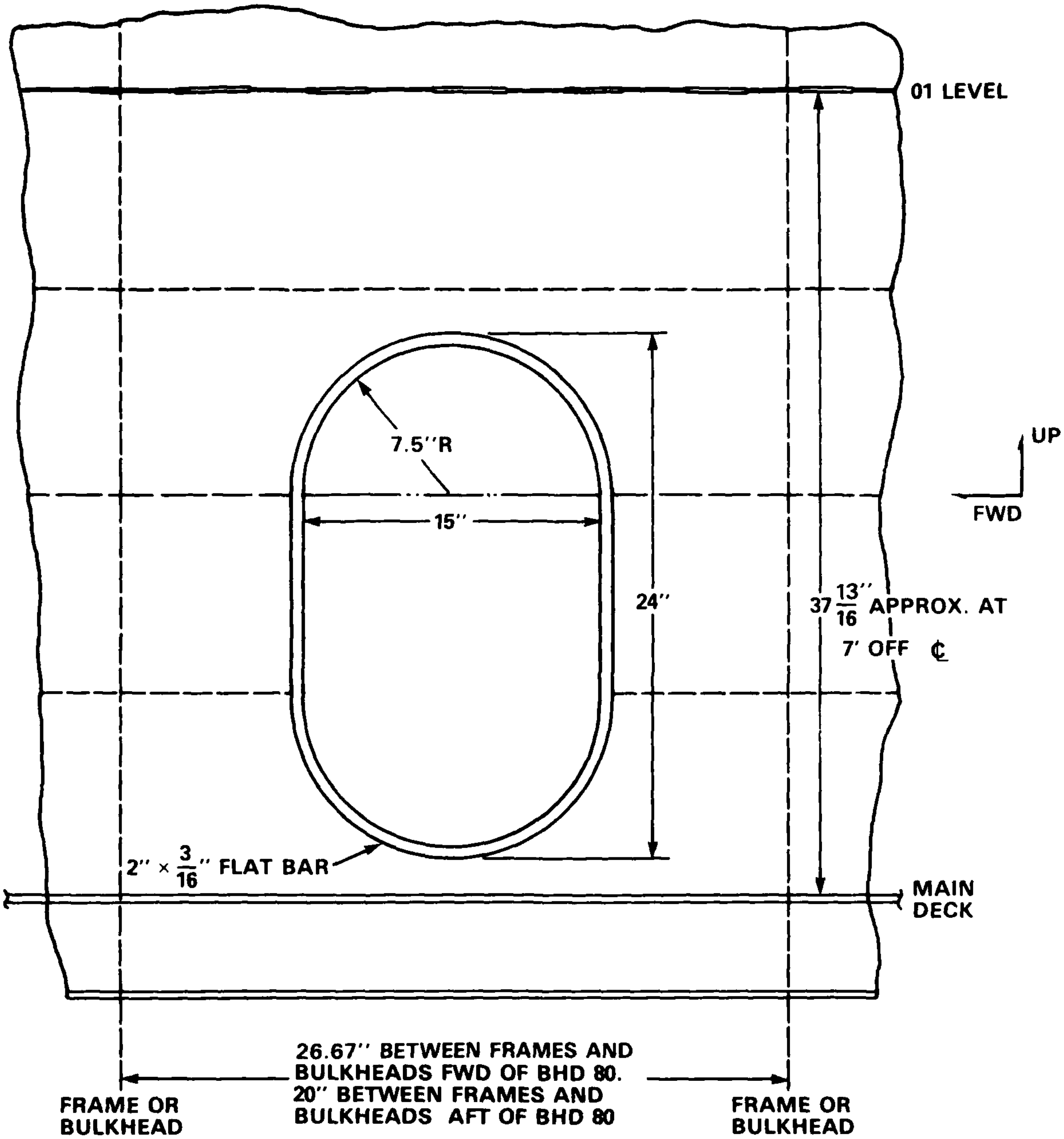


Figure 19 - Typical Deckhouse Side Access Hatch Opening

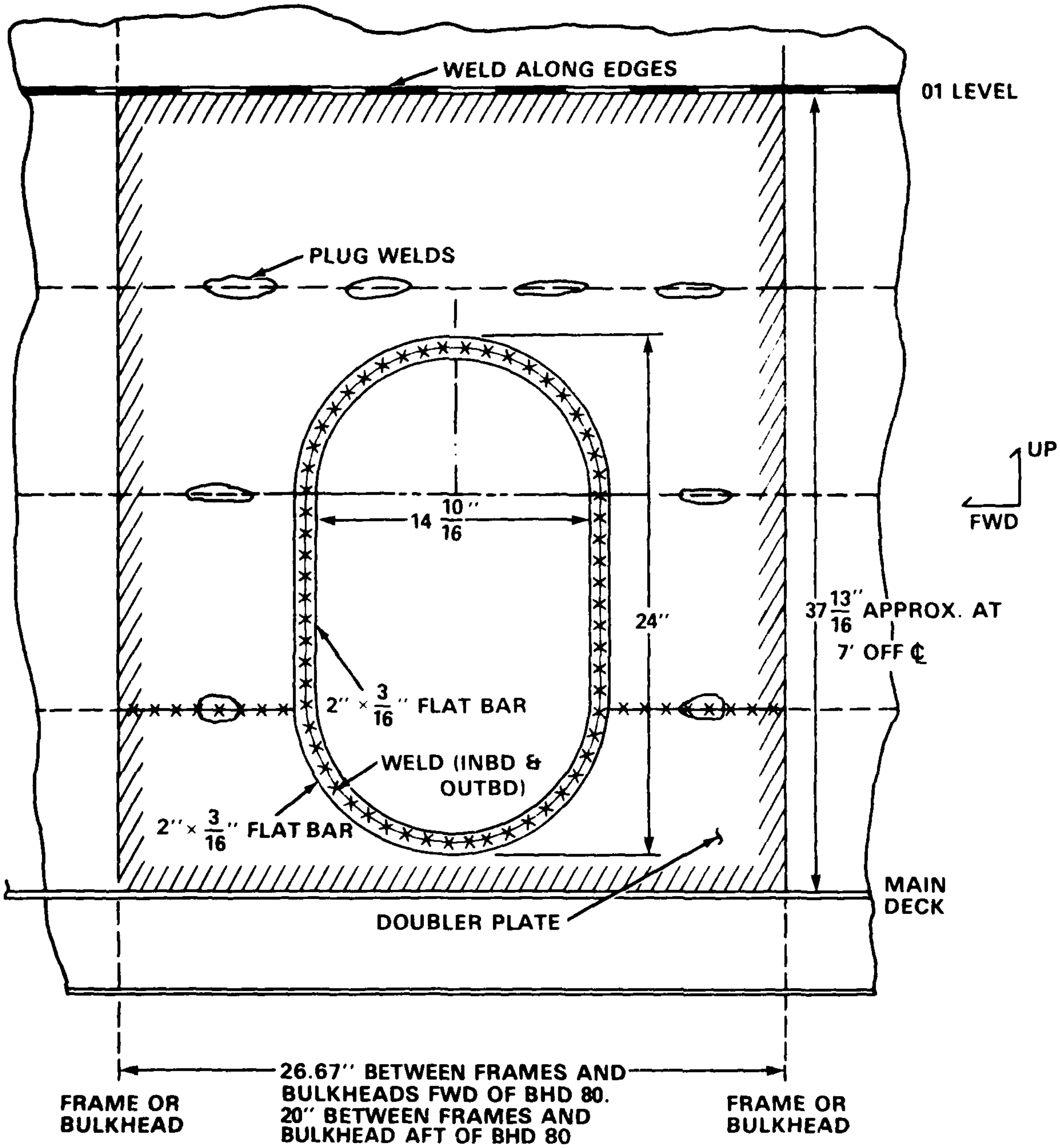


Figure 20 - Typical Deckhouse Side Access Hatch Opening after Structural Modification

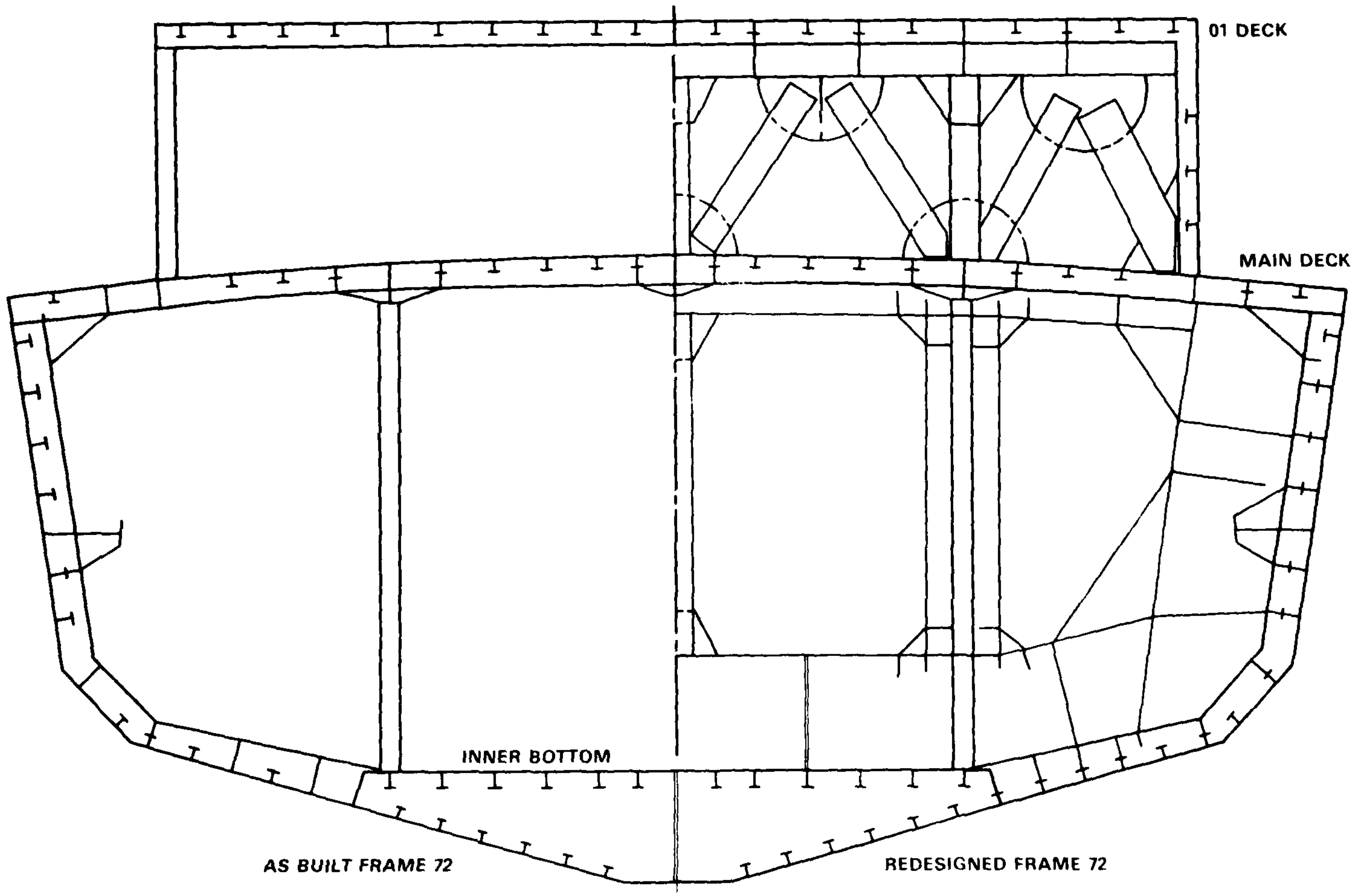
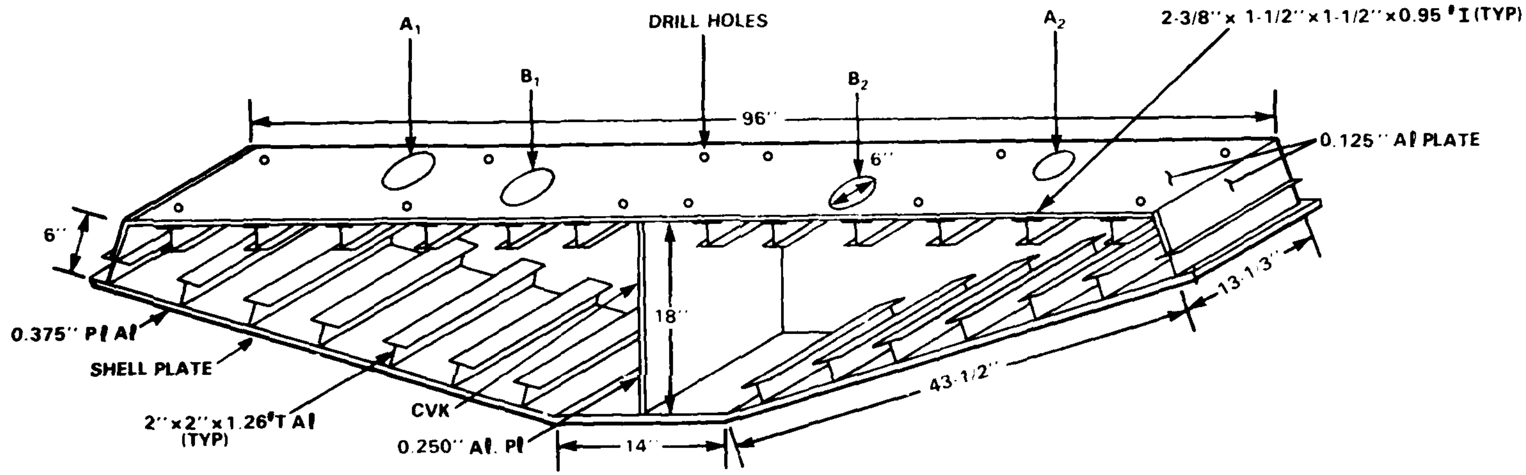


Figure 21 - Section Showing Frame 72 As-Built and after Structural Modifications



NOTE: RESERVOIRS (I.E. A GALLON CAN) SHOULD BE USED OVER OPENINGS A_1, A_2, B_1 & B_2 TO INSURE MAXIMUM INFILTRATION. CONTINUE INFILTRATING UNTIL THE RESERVOIRS AT B_1 & B_2 ARE FULL. AS THE FINAL STEP, REMOVE APPROXIMATELY 3/4's OF THE SYNTACTIC FOAM FROM EACH OF THE RESERVOIRS.

WOODEN MODEL SIMILAR

Figure 22 - Location of Syntactic Foam Pouring Holes at Partial Bulkhead 72

TABLE 1 - LOAD CELL CHANNELS AND LOCATIONS

Channel Number	Load Cell Location (Frame No.)				Notes
	Stbd	Keel			
		East	℄	West	
5	108	—	—	—	
6	—	—	108	—	
7	98	—	—	—	
8	—	98	—	—	
9	—	—	—	98	
10	92	—	—	—	
11	—	—	92	—	
12	86	—	—	—	Fixed*
13	—	—	86	—	Fixed*
14	80	—	—	—	
15	—	—	80	—	
16	72	—	—	—	
17	—	—	72	—	
18	64	—	—	—	
19	—	64	—	—	
20	—	—	—	64	
21	56	—	—	—	
22	—	56	—	—	
23	—	—	—	56	
24	48	—	—	—	
25	—	—	48	—	
26	40	—	—	—	
27	—	—	40	—	
28	24	—	—	—	Fixed*
29	—	24	—	—	Fixed*
30	—	—	—	24	Fixed*
31	16	—	—	—	
32	—	16	—	—	
33	—	—	—	16	
34	8	—	—	—	
35	—	—	8	—	
36	—	—	—	—	8-Surge**

*A nonmovable location.

**Monitors fore and aft.

TABLE 2 - ASEM STATIC TESTS AND ASSOCIATED DATA TAPES

Date	Loading Condition		Max Load Achieved During Test (% of P_{max})	Comments
	Type	Direction		
3-24-77	Vert	Sag	20	First static test
3-25-77	Vert	Sag	80	First major test, with people, stopped at 60% Sag
6-21-77	Vert	Hog	30	First Hog test, stopped at 30% Hog
6-22-77	Vert	Hog	70	Stopped at 70% Hog
7-29-77	Vert	Hog	80	Stopped at 80% Hog
8-09-77	Vert	Sag	80	Complete
8-17-77	Vert	Sag-Hog	80-80	First Sag-Hog. Complete, but missing 50, 60, 70% Sag
9-22-77	Vert	Sag-Hog	80-80	Complete
9-22-77	Vert (Sorted)	Sag-Hog	80-80	Complete, similar to previous tape for same date
9-23-77	Lat	Sag	40	Complete
9-26-77	Lat	Sag	80	Complete
9-27-77	Lat	Hog	80	Complete
10-03-77	Lat	Sag-Hog	80-80	Complete
10-07-77	Combined 60°	Sag-Hog	80-70	Stopped at 70% Hog
10-14-77	Combined 60°	Sag-Hog	80-80	Complete
10-17-77	Combined 240°	Sag-Hog	80-80	Complete
10-26-77	Combined 240°	Sag-Hog	80-80	Complete
10-28-77	Lat	Hog-Sag	80-80	Complete
2-22-78	Combined 240°	Sag-Hog		Initial Abort
3-01-78	Combined 240°	Sag-Hog	70 Sag	240 channels operative
4-12-78	Combined 240°	Sag-Hog	30 Hog	Software problem, overload at Bulkhead 16
6-09-78	Combined 240°	Sag-Hog	40 Hog	Software problem
6-27-78	Combined 240°	Sag-Hog	80-80	Complete test

TABLE 3 - STATIC TESTS SELECTED FOR COMPREHENSIVE DATA ANALYSIS

Test Number*	Date of Test	Time of Day	Type of Test
1	9-22-77	1130 - 1700	Vertical loads only
2	10-28-77	0830 - 1100	Lateral loads only
3	10-14-77	0930 - 1400	Vert. and Lat. loads, 60° Lag
4	10-26-77	0900 - 1200	Vert. and Lat. loads, 240° Lag
*To be referred to throughout report.			

TABLE 4 - A 20-YEAR SPECTRUM OF VERTICAL ORDINARY WAVE (OW) PLUS WHIPPING BENDING MOMENT [illegible] -SAG ([illegible])

BM × 10^3 (ft-long-tons)	Cycles Equal to or Exceeding, n
80	1
75	7
74	10
70	$4.5 \times 10^{[illegible]}$
65	3.6×10^3
61	2.0×10^3
58	5.5×10^3
53	5.0×10^4
50	8.3×10^4
45	1.6×10^5
40	2.9×10^5
35	5.0×10^5
30	8.5×10^5
25	1.5×10^6
20	2.6×10^6
15	4.9×10^6
10	1.0×10^7
5	2.3×10^7
3.75	2.48×10^7

TABLE 5 - MISALIGNMENT OF DECKHOUSE BULKHEADS RELATIVE TO HULL BULKHEADS AT MAIN DECK

Bulkhead Location	Misalignment (in.)					
	Port		Centerline		Starboard	
	Offset*	Direction**	Offset	Direction	Offset	Direction
32	0.5	Fwd	2.1	Fwd	1.2	Fwd
40	1.2	Fwd	1.62	Fwd	0.65	Fwd
48	1.0	Fwd	1.57	Fwd	0.38	Fwd
56	0.9	Fwd	0.75	Fwd	0.21	Fwd
64	0.86	Fwd	0.15	Fwd	0.1	Fwd
80	0.0	—	0.23	Aft	0.3	Fwd
86	1.2	Aft	2.14	Aft	1.0	Aft
92	1.0	Aft	1.66	Aft	2.3	Aft

*Port and starboard offset readings taken near respective deckhouse side.

**Direction is of deckhouse bulkhead relative to hull bulkhead.

TABLE 6 - SUMMARY OF PVC MODEL MODIFICATIONS AND SUBSEQUENT ASEM MODIFICATIONS*

High Stress Area (Frame Location)**	Average Stress*** (ksi)		Type of Modification
	Prior to Modification (PVC/ASEM)	After Modification (PVC/ASEM)	
32 port deckhouse corner	12/8	[illegible]	Fashion plate, close-off hatch, side shell doubler
32 stbd deckhouse corner	13/16	7/5	Fashion plate side shell doubler
38 port hatch	14/15	9/5	Side shell doubler, coaming doubler
38 stbd hatch	12/--	10/--	Side shell doubler, coaming doubler
Port - behind 56/01 deck	8/7	6/6	Fashion plate
Stbd - behind 56/01 deck	11/13	8/6	Fashion plate
62 port hatch	12/12	--/4	Side shell doubler, coaming doubler
62 stbd hatch	16/3	9/4	Side shell doubler, coaming doubler
79 stbd hatch	15/14	8/4	Side shell doubler, coaming doubler, cross-member
87 stbd hatch	4/14	5/5	Side shell doubler, coaming doubler
92 stbd deckhouse corner	5/6	---	Side shell doubler

*Rodd, James L. et al., "Rigid Vinyl Model Development of Structural Modification for the Aluminum Ship Evaluation Model (ASEM)," DTNSRDC Technical Memo 80-173-1 (Sep 1980).

**Side shell doublers and coaming doublers were also used at 42 port hatch, 47 port and stbd hatch, 76 stbd hatch, 87 port hatch, 92 centerline hatch, and 92 port deckhouse corner.

***PVC stresses are scaled stresses, and ASEM stresses are determined from test strain data. Both are sag condition, compressive stresses.

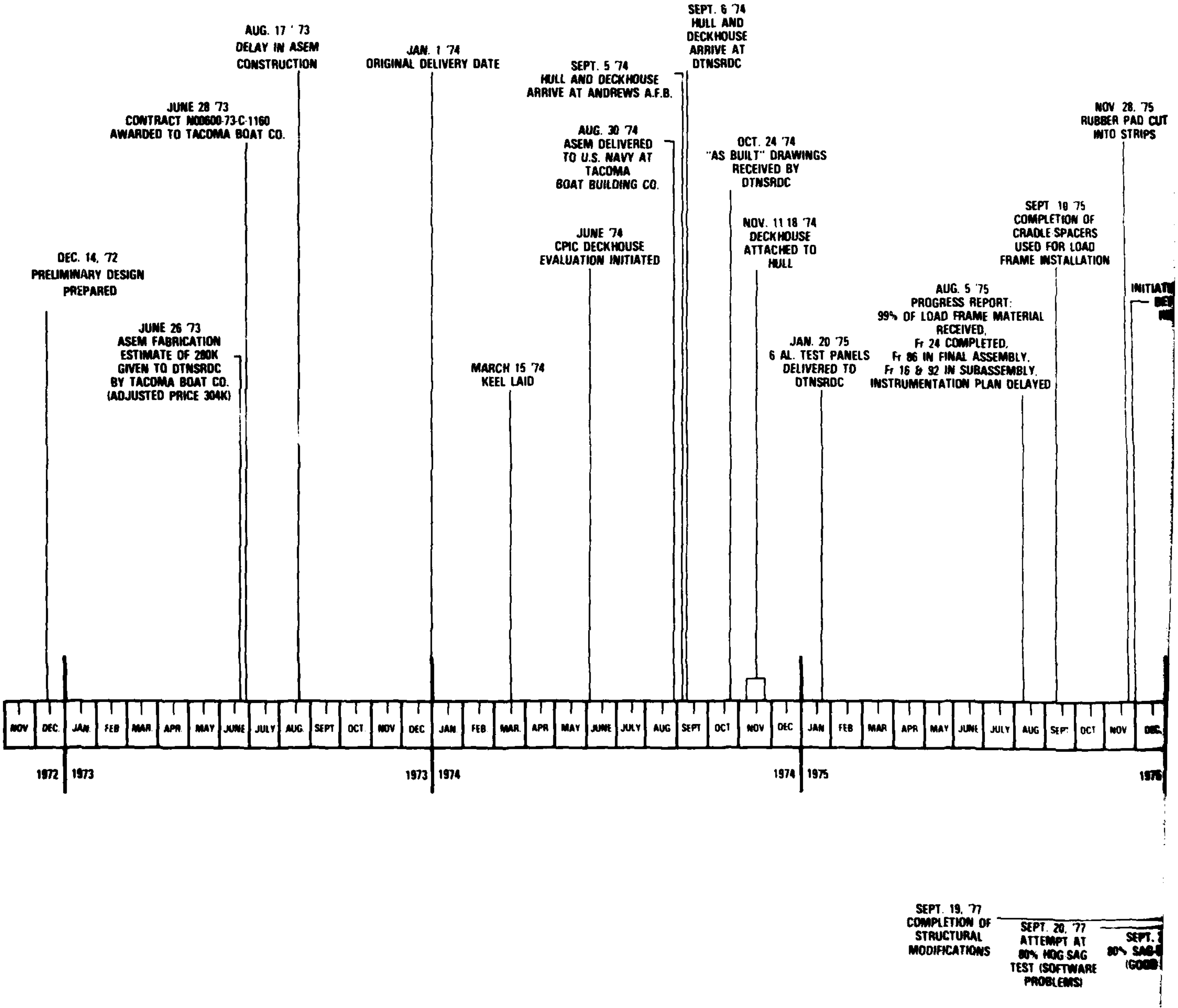
TABLE 7 - SUMMARY OF BULKHEAD STIFFENER FLANGE WARPAGE
(BETWEEN 01 DECK AND MAIN DECK)

Bulkhead	Average Warpage (in.)	Average Direction of Warpage	Maximum Warpage (in.)
32	0.02	Forward	0.05
40	0.05	Forward	0.125(A)
48	0.06	Forward	0.125
56	0.08	Aft	0.125
64	0.04	Aft	0.125
80	0.04	Forward	0.075
86	0.07	Aft	0.15
92	0.14	Aft	0.75

APPENDIX A

CHRONOLOGICAL FOLD-OUT OF ASEM MAJOR EVENTS THROUGH STATIC TEST COMPLETION

This appendix contains a chronological summary of the major events concerning the Large Scale Validation Program with the main emphasis on those items which affected the ASEM (see Figure A.1). The chronology begins with the preparation of the preliminary design by NAVSEA personnel in late 1972; then the construction period and delivery of the ASEM in 1974; the load frame and gage installation spanning from 1975 to 1977; the first static test in March 1977; and, (finally) static test completion in late 1977. Preparations for the cyclic tests were begun in early 1978 (a similar chronological summary is found in the report[6] which includes the results of the cyclic tests run from 1978 to 1981).


DEC. 14, '72
PRELIMINARY DESIGN
PREPARED
JUNE 26 '73
ASEM FABRICATION
ESTIMATE OF 280K
GIVEN TO DTNSRDC
BY TACOMA BOAT CO.
(ADJUSTED PRICE 304K)
JUNE 28 '73
CONTRACT N00600-73-C-1160
AWARDED TO TACOMA BOAT CO.
AUG. 17 '73
DELAY IN ASEM
CONSTRUCTION
JAN. 1 '74
ORIGINAL DELIVERY DATE
MARCH 15 '74
KEEL LAID
JUNE '74
CPIC DECKHOUSE
EVALUATION INITIATED
AUG. 30 '74
ASEM DELIVERED
TO U.S. NAVY AT
TACOMA
BOAT BUILDING CO.
SEPT. 5 '74
HULL AND DECKHOUSE
ARRIVE AT ANDREWS A.F.B.
SEPT. 6 '74
HULL AND
DECKHOUSE
ARRIVE AT
DTNSRDC
OCT. 24 '74
"AS BUILT" DRAWINGS
RECEIVED BY
DTNSRDC
NOV. 11 18 '74
DECKHOUSE
ATTACHED TO
HULL
JAN. 20 '75
6 AL. TEST PANELS
DELIVERED TO
DTNSRDC
AUG. 5 '75
PROGRESS REPORT:
99% OF LOAD FRAME MATERIAL
RECEIVED,
Fr 24 COMPLETED,
Fr 86 IN FINAL ASSEMBLY,
Fr 16 & 92 IN SUBASSEMBLY,
INSTRUMENTATION PLAN DELAYED
SEPT. 18 '75
COMPLETION OF
CRADLE SPACERS
USED FOR LOAD
FRAME INSTALLATION
NOV. 28, '75
RUBBER PAD CUT
INTO STRIPS
NOV DEC. JAN. FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV
1972 1973
1973 1974
1974 1975
SEPT. 19, '77
COMPLETION OF
STRUCTURAL
MODIFICATIONS
SEPT. 20, '77
ATTEMPT AT
80% HOG SAG
TEST (SOFTWARE
PROBLEMS)

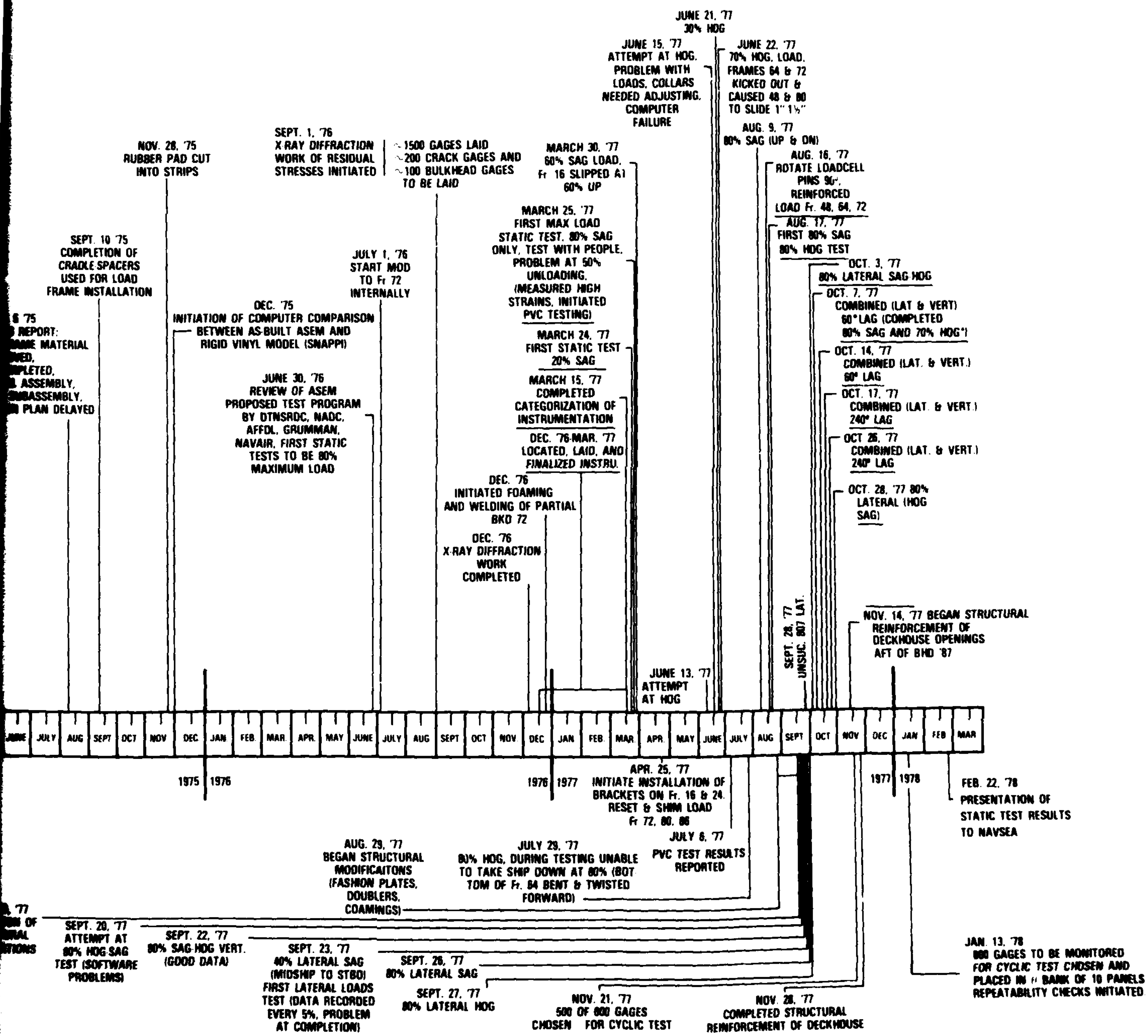


Figure A.1 - ASEM Static Tests Major Events

2

APPENDIX B

STRAIN DATA OF FOUR ANALYZED STATIC TESTS

GENERAL

During the static tests conducted on the ASEM, data were stored on magnetic tape for future computer data analysis. After preliminary analysis of the data, four tests with the "best behaved" data were chosen for extensive statistical analyses. Tables B.1 through B.4 summarize the results of these analyses. Throughout the analyses, the assumption is made that a linear relationship exists between load and resultant strain. To aid in interpreting the tables, an explanation of each table is given with emphasis on the explanation of column headings.

Prior to static testing, a system was devised which assigned an alphanumeric character to gages based on the gage location on the model.* In order to better understand gage locations described by the alphanumeric character used in Tables B.1 through B.4, the relevant portions of an informal report were extracted and included in Appendix E for referral.

The first three columns of Tables B.1 through B.4 are all exactly the same. The first column, titled GAGE NUMBER, is a number 1 through 1800 referring to a unique channel and, therefore, to a unique strain gage. As mentioned previously, GAGE NAME refers to the alphanumeric character used to describe the strain gage location. The third column, POSITION, is comprised of three values. The first value is the number associated with one of ten strain bridge completion panels located beneath the model on the test bed floor. The second value is the particular bank (blank, A or B) in each panel. The third value is the strain channel associated with each panel and each bank. This number varies from 1 to 60. Thus, for any one specific strain channel, the GAGE NUMBER, GAGE NAME, and POSITION are individually unique but all three represent one particular strain channel.

---

*Johnson, R.E., "The Aluminum Ship Evaluation Model (ASEM) Instrumentation," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

TABLE B.1 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH INDIVIDUAL VERTICAL AND LATERAL LOADING

The statistical analysis of the strain gage data obtained from the test on 22 September 1977 is presented under the portion of Table B.1 entitled VERTICAL LOADING ONLY. The data analysis of the test on 28 October 1977 is under LATERAL LOADING ONLY. As they imply, only vertical loads were applied to the model on 22 September and only lateral loads were applied on 28 October.

The SENSITIVITY/100% is the number obtained from performing linear regression analyses on the data and extrapolating the strain at 100% maximum BM. In this case, the load and temperature are the two independent variables in the analyses. Thus, multiplying this number by a fraction representing a particular load level will give the strain for that particular load level. In actuality, since no load greater than 80% maximum BM was applied to the model during the static tests, the factor will be no greater than 0.8.

The DRIFT is an indication of the variation in the data from the theoretical straight line plot due to temperature effects over time. The results of the linear multiple regression analysis used in determining the DRIFT is in micro inches per hour of apparent strain due to thermal effects on the lead wire resistance.

In this study, the ERROR OF ESTIMATE (EOE) is the standard deviation of the variation between measured data and predicted values. In general, the smaller this number, the better behaved are the data. However, unless the change in strain resulting from change in applied load is of significant magnitude (>50$\mu\varepsilon$), the EOE is not a good measure of data validity.

The CORRELATION COEFFICIENT is the quantitative measure of association between the strain and load variables, or how well a curve (straight line in this case) fits the test data. This value ranges from 0 to 1. As it approaches 1, the correlation between the data and the theoretical straight line will improve. Because of the definition of the correlation coefficient, a saturated (bad) channel will have a data value of zero (thus fitting a horizontal straight line perfectly). In this case, the correlation coefficient will have a meaningless value of 1.0.

TABLE B.2 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH COMBINED VERTICAL AND LATERAL LOADING

Whereas Table B.1 presented the results of the analysis of the data from the vertical-loads-only test and the lateral-loads-only test, Table B.2 presents the data analysis of the combined vertical and lateral loading test with a 60° phase lag and the combined loading test with a 240° phase lag. The ERROR OF ESTIMATE and CORRELATION COEFFICIENT are determined in the same manner as discussed previously. However, for the combined loading tests, the SENSITIVITY/100% values are obtained for the two independent variables, VERTICAL loads, and LATERAL loads.

TABLE B.3 - STRAIN SENSITIVITIES FROM STATISTICAL ANALYSIS OF ASEM STATIC TEST DATA

This table is a compilation of the "best" data selected from Tables B.1 and B.2. The first three columns are the same as in the previous two tables. The fourth column, ASSUMED CAL identifies whether the calibration (cal) value recorded during testing was used in the analysis, or whether an assumed value was used. The strain computations are based on calibration values derived from the statistical evaluation of nine separate values. The assumed calibration value (indicated by a YES) was the average of all of the valid calibration values. For the data analyses, this was -536.9 counts per 1000$\mu\varepsilon$.

The criteria of "best" data is based on the lowest error of estimate. For VERTICAL LOADING ONLY the VERTICAL SENSITIVITY, ESTIMATE OF ERROR, and CORRELATION COEFFICIENT were selected from Tests 1, 3, and 4 (see Table B.4).

TABLE B.4 - TEST IDENTIFICATION USED IN TABLE B.3

Test	Type Loading	Date
1	Vertical	9-22-77
2	Lateral	10-28-77
3	Combined at 60° Lag	10-14-77
4	Combined at 240° Lag	10-26-77

For LATERAL LOADING ONLY the LATERAL SENSITIVITY and associated ERROR OF ESTIMATE and CORRELATION COEFFICIENT were selected from Tests 2, 3, or 4. The majority of the data in Table B.3 came from Tests 1 and 2. Apparently the temperature effects for these two tests were minimized.

TABLE B.5 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 60 DEGREE LAG

This table compares the theoretical data obtained from the data analysis with the actual test data for the test of combined loading with a 60° lag. The first four columns are the same as in the previous tables. The fifth column is the maximum positive measured value of strain and the sixth column is the vertical and lateral loads at which the maximum positive measured strain occurred. The seventh column, PREDICTED STRAIN, is the strain value which would have been predicted using the moment condition of the previous column. This strain value is determined by first dividing the two numbers in the previous column associated with vertical and lateral moment by 100; then multiplying by each appropriate sensitivity from Table B.3 and finally summing the two values.

The last three columns are the MAXIMUM PREDICTED STRAIN, the MOMENT condition at which it occurs and the actual MEASURED STRAIN at that MOMENT condition. When the MAXIMUM PREDICTED STRAIN and the MEASURED STRAIN are determined to be the same, the characters SAME are used to prevent repetition.

TABLE B.6 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 240 DEGREE LAG

This table is similar to Table B.5 except that the comparison of the theoretical and actual data is for the test for combined loading with a 240° phase shift in the lateral and vertical loads.

TABLE B.1 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH INDIVIDUAL VERTICAL AND LATERAL LOADING

			VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
GAGE NUMBER	GAGE NAME	POSITION	SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1	B8COMMP	9- -1	66	11	7	9470	-6	-2	6	5645
2	B8P4MMP	9- -2	57	19	13	8344	0	37	22	5995
3	B8P7MMP	9- -3	-6	0	38	.2464	-6	11	25	2030
4	B8COMFP	9- -4	0	0	0	1.0000	-61	90	26	7454
5	B8P2MFP	9- -5	-56	13	5	9929	10	44	5	9817
6	B8S4MFP	9- -6	73	2	15	9023	-44	15	82	0603
7	B8S7MMP	9- -7	14	14	2	9940	9	-14	1	957[illegible]
8	B8S2MFP	9- -8	-60	22	4	9975	16	-42	4	9705
9	B8COHHRH	9- -9	-29	110	121	8079	0	0	0	1 0000
10	B8COHHRD	9- -10	-361	23	26	9908	16	13	2	9890
11	B8COHHRV	9- -11	54	17	11	8629	9	-6	2	8482
12	B8P11IRV	9- -12	-1	0	1	2132	0	0	0	1149
13	B8P11IRD	9- -13	257	24	15	9881	17	-77	3	9941
14	B8P11IRH	9- -14	-21	23	4	9944	20	-12	4	8977
15	B8PSFFRV	9- -15	87	12	4	9921	10	186	3	9996
16	B8PSFFRD	9- -16	157	24	5	9956	22	80	3	9973
17	B8PSFFRH	9- -17	-155	6	4	9985	-15	-90	11	9739
18	B8S11IRH	9- -18	-84	12	6	9934	7	-10	2	8276
19	B8S11IRD	9- -19	0	0	0	1 0000	0	0	0	1 0000
20	B8S11IRV	9- -20	59	19	13	8464	8	24	4	9720
21	B8SSFFRH	9- -21	-121	16	7	9952	17	92	10	9806
22	B8SSFFRD	9- -22	206	25	86	6355	28	-141	28	8279
23	B8SSFFRV	9- -23	-7	15	3	9903	20	-319	12	9964
24	B8COMMS	9- -24	-272	18	6	9993	16	-2	4	8931
25	B8P4MMS	9- -25	0	0	0	1 0000	0	0	0	1 0000
26	B8P7MMS	9- -26	-103	14	3	9990	14	7	4	9313
27	B8COMFS	9- -27	0	3	3	8058	7	1	2	9173
28	B8P2MFS	9- -28	9	14	5	9644	18	-14	4	8696
29	B8S4MMS	9- -29	-234	15	3	9996	17	-37	3	9759
30	B8S7MMS	9- -30	0	0	0	1 0000	0	0	0	1 0000
31	B8S2MFS	9- -31	-10	13	6	9706	13	4	2	9806
32	M9COS	9- -32	-31	14	1	9991	12	-9	3	8319
33	M9P11P	9- -33	40	14	3	9783	13	-10	6	6763
34	M9S11P	9- -34	40	17	2	9920	8	9	3	9408
35	M11COS	9- -35	0	0	0	1 0000	0	0	0	1 0000
36	M11S11P	9- -36	22	15	6	.9305	15	18	4	9701
37	M13COS	9- -37	-62	9	4	9943	4	-3	4	2890
38	M13P12P	9- -38	0	0	0	1 0000	0	0	0	1 0000
39	M13S12P	9- -39	-19	10	3	.9903	4	27	3	9768
40	M15COS	9- -40	-91	14	4	9981	16	0	4	9263
41	M15S13P	9- -41	-80	17	5	.9960	20	17	4	9724
42	M17COS	9- -42	-104	11	3	.9987	10	-1	4	8069
43	M17P13P	9- -43	-38	15	4	.9947	8	-32	6	9055
44	M17S13P	9- -44	-33	15	4	9937	13	42	3	9920
45	M19COS	9- -45	-141	12	2	.9997	10	-8	3	8157
46	M19S13P	9- -46	-25	15	3	9939	19	81	12	9682
47	M23COS	9- -47	-141	15	2	9997	15	4	5	9004
48	M23S13 9P	9- -48	-188	14	3	.9995	8	104	4	9968
49	M25P13P	9- -49	-179	13	3	9996	10	-123	3	9985
50	M25S13P	9- -50	-175	10	2	9997	7	128	2	9995
51	M27COS	9- -51	-125	15	21	9614	-15	46	72	1023
52	M27S14P	9- -52	-199	12	12	9935	1	173	18	9770
53	M29COS	9- -53	0	0	0	1 0000	0	0	0	1 0000
54	M29P14P	9- -54	0	0	0	1 0000	0	0	0	1 0000
55	M29S14P	9- -55	-237	9	3	9996	12	188	3	9994
56	M31COS	9- -56	-322	21	2	9999	23	-3	5	9312
57	M31S14P	9- -57	-347	15	2	9999	9	212	2	9998
58	H24.1S20P(C)	9- -58	-214	12	2	9998	11	119	2	9995
59	F9S4P(C)	9- -59	-30	10	2	9959	12	80	2	9991
60	H36P18.S(D)	9- -60	1	9	1	9953	9	-1	2	9180
61	B16COMMP	9-A- 1	178	5	11	9896	-3	-12	8	6318
62	B16COMMS	9-A- 2	-272	26	33	9780	16	172	257	2201
63	B16P4MMP	9-A- 3	189	4	19	9754	-2	42	15	7843
64	B16P4MMS	9-A- 4	8	4	10	.2641	0	0	0	1 0000
65	B16P8MMP	9-A- 5	202	7	31	9420	-36	68	40	4469
66	B16P8MMS	9-A- 6	-21	-1	26	.2343	-16	73	18	8313
67	B16COMFP	9-A- 7	86	9	13	9274	8	2	8	5544
68	B16COMFS	9-A- 8	103	15	9	9708	16	-6	4	9073
69	B16P3MFP	9-A- 9	-15	3	42	.0870	10	53	37	5946
70	B16P3MFS	9-A-10	265	6	31	9653	4	17	22	3366
71	B16COF1P	9-A-11	109	6	12	.9654	7	6	5	7552
72	B16COF1S	9-A-12	3	2	5	2038	0	-1	1	4893
73	B16P2F1P	9-A-13	129	8	11	9771	9	18	10	7691
74	B16P2F1S	9-A-14	-22	20	10	.9648	13	4	13	5525
75	B16S4MMP	9-A-15	143	8	16	.9634	9	-18	8	5504

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
76	B1654MMS	9-A-16	-154	16	13	9902	12	-18	5	7550
77	B1658MMP	9-A-17	154	4	16	9728	-11	-47	11	[illegible]
78	B1658MMS	9-A-18	9	17	23	6656	5	-51	13	8599
79	B1653MFP	9-A-19	-6	-3	7	2641	0	0	0	1.0000
80	B1653MFS	9-A-20	213	-3	40	9307	-2	-38	-9	[illegible]
81	B1652FIP	9-A-21	159	13	12	9614	18	-12	14	4289
82	B1652FIS	9-A-22	-114	16	-5	9770	10	-23	20	2805
83	B16COHHRH	9-A-23	-25	14	23	[illegible]	16	-33	6	8555
84	B16COHHRD	9-A-24	-70	12	25	8781	14	16	4	9633
85	B16COHHRV	9-A-25	9	5	12	2641	0	0	0	1.0000
86	B16P3IIRV	9-A-26	127	14	12	5704	15	23	5	5696
87	B16P3IIRD	9-A-27	147	15	7	9911	18	-10	6	7944
88	B16P3IIRH	9-A-28	-215	15	11	9953	4	40	20	7055
89	B16P7 SFFRV	9-A-29	859	15	48	9922	4	73	19	8839
90	B16P7 SFFRD	9-A-30	-5	-3	7	2642	0	0	0	1.0000
91	B16P7 SFFRH	9-A-31	-390	15	10	9988	25	44	27	7639
92	B16S3IIRH	9-A-32	-188	13	10	9954	6	-42	17	7068
93	B16S3IIRD	9-A-33	221	11	9	9954	14	45	[illegible]	9261
94	B16S3IIRV	9-A-34	216	15	12	9912	15	-8	10	5082
95	B16S7 SFFRH	9-A-35	[illegible]	-3	9	2641	3	-13	20	0383
96	B16S7 SFFRD	9-A-36	404	9	34	9824	33	-125	37	7762
97	B16S7 SFFRV	9-A-37	653	5	50	9864	8	-133	12	9800
98	F9CONA	9-A-38	[illegible]	7	10	9361	-26	11	17	5592
99	F13CONA	9-A-39	-30	10	3	9930	6	-2	4	6130
100	I17COP	9-A-40	[illegible]	15	3	9993	17	1	4	9258
101	I21 3COP	9-A-41	176	17	6	9955	20	-4	7	8195
102	F25CONA	9-A-42	-42	8	16	8762	-3	-2	11	0746
103	F29CONA	9-A-43	-24	19	8	9784	17	8	4	9602
104	I9COP	9-A-44	-4	2	[illegible]	2643	0	0	0	1.0000
105	I13COP	9-A-45	[illegible]	11	4	9410	15	-10	4	8743
106	F17CONA	9-A-46	[illegible]	16	4	9909	11	0	3	8929
107	F21 3CONA	9-A-47	38	2	33	4920	13	-15	16	2268
108	H9COP	9-A-48	[illegible]	25	8	9563	13	-1	5	8361
109	H11COP	9-A-49	76	17	28	6379	13	2	[illegible]	7219
110	H13COP	9-A-50	-7	3	9	2642	0	0	0	1.0000
111	H15COP	9-A-51	0	12	41	3369	-17	4	27	3262
112	H17COP	9-A-52	-27	18	58	4929	56	33	118	2687
113	H19COP	9-A-53	10	5	13	2641	0	0	0	1.0000
114	H23COP	9-A-54	190	14	5	9981	16	-1	5	8799
115	H25COP	9-A-55	247	14	4	9994	12	2	3	9392
116	H27COP	9-A-56	371	19	4	9997	24	-4	5	9317
117	H29COP	9-A-57	449	13	3	9999	12	2	2	9535
118	H31COP	9-A-58	534	12	6	9997	9	-3	3	7958
119	H47COP	9-A-59	696	11	5	9999	14	-2	3	9319
120	[illegible]	9-A-60	-3	10	4	9687	8	-1	3	7688
121	B24COMMP	9-B-1	101	7	6	9828	-14	-2	12	[illegible]
122	B24COMMS	9-B-2	-303	19	51	9526	140	-51	288	1016
123	B24S4MMP	9-B-3	51	8	10	8773	11	-16	7	5759
124	B24P4MMS	9-B-4	0	0	0	1.0000	0	0	0	1.0000
125	B24S7MMP	9-B-5	43	11	3	9763	-3	7	7	2270
126	B24P7MMS	9-B-6	-43	0	14	7954	-6	88	12	9562
127	B24COMFP	9-B-7	48	11	6	9231	13	-3	3	9007
128	B24COMFS	9-B-8	-12	15	5	9848	-8	-9	8	6775
129	B24S4MFP	9-B-9	4	18	6	9697	22	18	4	9019
130	B24P5MFS	9-B-10	149	11	22	9339	5	45	13	8678
131	B24COFIP	9-B-11	60	9	8	9360	8	8	4	8983
132	B24COFIS	9-B-12	1	0	1	2459	0	0	1	2528
133	B24S3FIP	9-B-13	-601	-55	259	6465	14	-18	4	8399
134	B24P3FIS	9-B-14	-48	20	8	9871	16	27	6	9626
135	B24P4MMP	9-B-15	82	11	9	9504	2	19	5	8664
136	B24S4MMS	9-B-16	-171	18	6	9982	20	-52	5	9551
137	B24P7MMP	9-B-17	99	5	4	9952	-4	3	5	1945
138	B24S7MMS	9-B-18	-44	13	18	8963	4	-51	9	9269
139	B24P5MFP	9-B-19	0	0	0	1.0000	0	0	0	1.0000
140	B24S4MFS	9-B-20	64	12	15	8181	9	-11	10	2701
141	B24P3FIP	9-B-21	88	12	12	9334	10	20	5	9384
142	B24S3FIS	9-B-22	-42	16	9	9725	10	-15	6	6056
143	B24COHHRH	9-B-23	-201	15	16	9899	9	31	8	9181
144	B24COHHRD	9-B-24	-90	18	9	9898	7	28	8	8844
145	B24COHHRV	9-B-25	0	0	0	1.0000	0	0	0	1.0000
146	B24P4IIRH	9-B-26	-363	14	16	9964	6	88	11	9714
147	B24P4IIRD	9-B-27	116	14	8	9929	8	42	7	9515
148	B24P4IIRV	9-B-28	117	13	8	9807	9	12	6	8403
149	B24P9FFRV	9-B-29	408	17	26	9887	5	142	19	9628
150	B24P9FFRD	9-B-30	0	0	0	1.0000	0	0	0	1.0000

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
151	B24P9FFRH	9-B-31	-227	16	12	9955	14	7	17	4943
152	B24S41IRH	9-B-32	-369	13	16	9965	-1	-77	12	9487
153	B24S41IRD	9-B-33	0	0	0	1 0000	7	-39	5	9414
154	B24S41IRV	9-B-34	82	13	7	9654	15	-13	6	7079
155	B24S9FFRH	9-B-35	-171	15	7	9977	3	-36	13	7562
156	B24S9FFRD	9-B-36	111	16	9	9721	19	-41	9	8445
157	B24S9FFRV	9-B-37	258	9	17	9887	14	-38	12	7160
158	125COP	9-B-38	342	13	3	9997	-1	-6	6	4202
159	129COP	9-B-39	292	9	2	9999	4	-1	6	2082
160	B32CO 1M2P(C)	9-B-40	-244	12	4	9994	16	5	4	9422
161	M31 9COP(C)	9-B-41	-563	16	3	9999	21	11	4	9685
162	M22 559 5P(C)	9-B-42	-268	10	5	9994	9	63	8	9695
163	M23P 3P(C)	9-B-43	-186	12	2	9998	13	-35	3	9625
164	M22 5P 3P(C)	9-B-44	-182	12	3	9994	15	-13	3	8781
165	M12 5P 4P(C)	9-B-45	-48	15	3	9976	15	-15	7	6491
166	M12 5P 5P(C)	9-B-46	-49	13	2	9988	10	-6	2	8995
167	M12 5P4P(C)	9-B-47	-69	13	3	9984	12	-17	3	8468
168	B24P11 6P(SC)	9-B-48	129	13	12	9705	3	47	6	9719
169	H23 9S8 5P(HSL)	9-B-49	-292	13	4	9997	0	104	5	9955
170	H23 9S8 5P(HSU)	9-B-50	392	10	4	9998	4	-28	[illegible]	8644
171	H23 9P8 5P(HSL)	9-B-51	-320	0	27	9842	-4	-79	30	7786
172	H23 9P8 5P(HSU)	9-B-52	319	3	13	9961	0	61	6	9806
173	M60S9P(C)	9-B-53	0	0	0	1 0000	0	0	0	1 0000
174	M48 1P8P(C)	9-B-54	-336	13	5	9995	9	-133	4	9974
175	B48S5MMS(BM)	9-B-55	59	8	17	7762	8	26	2	9884
176	B48S5MZP(BM)	9-B-56	-137	13	26	9509	23	37	3	9955
177	B48S5MZS(BM)	9-B-57	-97	7	36	8221	16	24	7	9417
178	B48S5 1MZP(BM)	9-B-58	-47	6	14	8970	216	-823	1326	0964
179	M49 5S9P(IF)	9-B-59	0	0	0	1 0000	3	160	3	9993
180	H28P17 5(D)	9-B-60	1	0	2	1205	-7	3	4	6375
181	B40COTTP	8- -1	0	0	1	2019	1	-1	1	0328
182	B40COTTS	8- -2	-1	0	1	3520	0	0	0	1596
183	B40P4TTP	8- -3	0	0	1	2571	0	0	1	2316
184	B40P4TTS	8- -4	0	0	0	2976	0	0	1	2343
185	B40P8TTP	8- -5	0	0	0	2976	0	0	0	1 0000
186	B40P8TTS	8- -6	1	0	1	6649	0	0	1	1715
187	B40CO2TP	8- -7	0	0	0	2976	0	0	0	1929
188	B40CO2TS	8- -8	0	0	0	1 0000	0	0	0	1 0000
189	B40P42TP	8- -9	0	0	1	5101	0	0	0	1 0000
190	B40P42TS	8- -10	0	0	0	3830	-1	0	1	5011
191	B40P82TP	8- -11	0	-4	2	9516	4	-1	2	7209
192	B40P82TS	8- -12	-1	0	1	4707	0	0	1	1284
193	B40COM2P	8- -13	0	0	1	6857	0	0	0	1 0000
194	B40COM2S	8- -14	0	0	0	2976	0	0	1	0236
195	B40COMFP	8- -15	0	0	1	3123	2	1	2	5741
196	B40COMFS	8- -16	-1	-1	1	6631	0	0	0	1 0000
197	B40P7MFP	8- -17	-1	0	1	5030	0	0	0	1 0000
198	B40P7MFS	8- -18	-1	0	1	4598	0	0	0	1 0000
199	B40COFIP	8- -19	0	0	0	1 0000	0	0	0	1 0000
200	B40COFIS	8- -20	0	0	0	1262	0	0	1	2011
201	B40P6FIP	8- -21	0	0	1	6452	0	0	1	0427
202	B40P6FIS	8- -22	-1	0	1	3672	0	0	1	0713
203	B40S4TTP	8- -23	1	0	1	0822	0	0	1	1848
204	B40S4TTS	8- -24	0	0	0	1 0000	0	0	0	1 0000
205	B40S8TTP	8- -25	0	0	0	1 0000	0	0	0	1 0000
206	B40S8TTS	8- -26	-1	0	0	.5882	0	0	1	2346
207	B40S4ZTP	8- -27	0	0	0	1.0000	0	0	0	1 0000
208	B40S4ZTS	8- -28	0	0	0	1523	0	0	0	1977
209	B40S8ZTP	8- -29	0	0	1	2279	0	0	1	2421
210	B40S8ZTS	8- -30	0	0	1	1162	0	0	0	1 0000
211	B40S4MFP	8- -31	0	0	1	1699	0	0	1	2543
212	B40S4MFS	8- -32	0	0	0	1.0000	0	0	0	1 0000
213	B40S6FIP	8- -33	1	0	1	4053	0	0	0	0499
214	B40S6FIS	8- -34	1	0	1	4222	0	0	0	1 0000
215	B40COHHRH	8- -35	1	0	1	4819	0	0	0	1 0000
216	B40COHHRD	8- -36	2	0	1	4259	0	0	0	1 0000
217	B40COHHRV	8- -37	1	0	1	2684	1	-1	1	3146
218	B40P6IIRH	8- -38	0	0	1	2354	1	0	1	2181
219	B40P6IIRD	8- -39	1	0	1	3833	0	0	1	1675
220	B40P6IIRV	8- -40	-1	0	1	2409	0	1	1	1791
221	B40P9FIRV	8- -41	-1	0	1	3708	0	0	0	2158
222	B40P9FIRD	8- -42	-1	0	1	3083	0	0	0	1 0000
223	B40P9FIRH	8- -43	-1	-1	1	3661	0	0	0	1 0000
224	B40P12FFRV	8- -44	-2	0	2	2005	0	0	1	2412
225	B40P12FFRD	8- -45	-1	0	1	2738	0	0	0	1 0000

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
226	B40P12FFRH	8- -46	.1	0	1	0800	0	0	0	1 0000
227	B40S611IRV	8- -47	.1	0	1	3393	0	0	0	1 0000
228	B40S611IRD	8- -48	0	0	1	2219	0	0	0	173[illegible]
229	B40S611IRH	8- -49	0	0	1	1014	0	0	0	1 0000
230	B40S9FIRH	8- -50	0	0	1	165[illegible]	0	0	1	1500
231	B40S9FIRD	8- -51	0	0	1	2182	0	0	0	3404
232	B40S9FIRV	8- -52	0	0	0	1 0000	0	0	0	1 0000
233	B40S12FFRH	8- -53	1	0	1	1242	0	0	0	2538
234	B40S12FFRD	8- -54	1	0	2	0255	0	0	0	32[illegible]
235	B40S12FFRV	8- -55	0	0	0	0000	0	0	0	1 0000
236	B48COMMP	8- -56	1	0	1	1003	1	.1	1	4365
237	B48S8 4MFRV	8- -57	1	0	1	[illegible]	0	0	0	0000
238	B48S8 4MFRD	8- -58	1	0	1	3475	0	0	1	1633
239	B48S8 4MFRH	8- -59	1	0	1	2872	0	.1	1	1944
240	W48P22[illegible]	8- -60	0	0	1	2497	0	0	0	1 0000
241	B48COTTP	8-A-1	.1	0	1	3321	0	.1	1	1874
242	B48COTTS	8-A-2	.1	0	1	3770	0	0	0	2288
243	B48P4TTP	8-A-3	2	.1	1	5078	0	0	0	2241
244	B48P4TTS	8-A-4	.1	0	1	3529	0	0	1	2359
245	B48P8TTP	8-A-5	0	0	1	2245	0	0	0	2549
246	B48P8TTS	8-A-6	1	.1	1	6808	0	0	1	1704
247	B48CO2TP	8-A-7	.1	0	1	2283	0	0	0	1 0000
248	B48CO2TS	8-A-8	0	0	1	2324	0	0	0	1 0000
249	B48P42TP	8-A-9	0	0	1	4902	0	0	0	1 0000
250	B48P42TS	8-A-10	.1	.1	1	5899	.1	1	1	3985
251	B48P82TP	8-A-11	0	0	0	1594	0	0	1	2627
252	B48P82TS	8-A-12	.1	0	0	557[illegible]	0	0	0	1 0000
253	B48COMZP	8-A-13	.1	0	1	4259	0	0	0	0918
254	B48COMZS	8-A-14	0	0	0	1673	0	0	1	1576
255	B48COMFP	8-A-15	0	0	1	2324	0	0	0	1 0000
256	B48COMFS	8-A-16	0	0	1	1714	0	0	0	1 0000
257	B48P6MFP	8-A-17	0	0	0	1030	0	0	0	1 0000
258	B48P6MFS	8-A-18	1	0	0	3213	0	0	1	2367
259	B48COFIP	8-A-19	0	0	0	1 0000	0	0	0	1 0000
260	B48COFIS	8-A-20	0	0	0	0531	0	.1	1	2264
261	B48P6FIP	8-A-21	0	0	1	8262	0	0	0	1 0000
262	B48P6FIS	8-A-22	0	0	1	3328	.1	1	1	1480
263	B48S4TTP	8-A-23	0	0	1	1823	0	0	0	1731
264	B48S4TTS	8-A-24	0	0	0	1 0000	0	0	0	1 0000
265	B48S8TTP	8-A-25	0	0	0	1 0000	0	0	0	1 0000
266	B48S8TTS	8-A-26	1	0	1	4627	0	0	1	2666
267	B48S42TP	8-A-27	0	0	0	1 0000	0	0	0	1 0000
268	B48S42TS	8-A-28	1	.1	1	6837	0	0	1	2443
269	B48S82TP	8-A-29	0	0	0	1 0000	0	0	0	1 0000
270	B48S82TS	8-A-30	0	0	0	0856	0	0	0	1 0000
271	B48S6MFP	8-A-31	0	0	0	3563	0	0	1	2022
272	B48S6MFS	8-A-32	0	0	0	1 0000	0	0	0	1 0000
273	B48S6FIP	8-A-33	.1	0	1	0763	0	0	0	1 0000
274	B48S6FIS	8-A-34	0	0	1	2222	0	0	1	2055
275	B48COHHRH	8-A-35	0	0	1	2575	0	0	1	0309
276	B48COHHRD	8-A-36	0	0	1	2222	0	0	1	1966
277	B48COHHRV	8-A-37	0	0	1	3559	0	0	1	1866
278	B48P7IIRV	8-A-38	0	0	1	1551	0	0	1	1941
279	B48P7IIRD	8-A-39	.1	0	1	3407	0	1	1	0496
280	B48P7IIRH	8-A-40	0	0	1	2052	0	0	1	2220
281	B48P10FIRV	8-A-41	0	0	1	2120	0	0	0	2057
282	B48P10FIRD	8-A-42	0	0	1	1814	0	0	0	1 0000
283	B48P10FIRH	8-A-43	0	0	1	1526	0	0	0	1 0000
284	B48P12FFRV	8-A-44	1	0	1	1512	0	1	1	2394
285	B48P12FFRD	8-A-45	1	0	1	1310	0	0	0	1 0000
286	B48P12FFRH	8-A-46	0	0	1	2531	0	0	0	1 0000
287	B48S7IIRH	8-A-47	0	0	1	2035	0	0	0	2549
288	B48S7IIRD	8-A-48	0	0	1	2133	0	0	1	2464
289	B48S7IIRV	8-A-49	0	0	0	1395	0	0	0	1 0000
290	B48S10FIRH	8-A-50	.1	0	1	1152	0	0	0	1 0000
291	B48S10FIRD	8-A-51	0	0	1	0888	0	0	0	1 0000
292	B48S10FIRV	8-A-52	0	0	0	1 0000	0	0	0	1 0000
293	B48S12IIRH	8-A-53	.1	0	1	0118	0	1	1	2886
294	B48S12IIRD	8-A-54	.1	.1	1	2512	0	1	1	1858
295	B48S12IIRV	8-A-55	0	0	0	1 0000	0	0	0	1 0000
296	H48 IS2CP(C)	8-A-56	16	.5	9	8428	4	.3	2	5110
297	B48S13MMS(C)	8-A-57	0	0	1	1543	0	0	1	1869
298	B56S5IIP(C)	8-A-58	0	0	0	3411	0	0	0	1 0000
299	B56P4MMS(C)	8-A-59	0	0	1	1339	3	.4	3	3339
100	B40P11DK)	8-A-60	0	0	1	2025	0	0	0	1 0000

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
301	M30 4P10W	8-B- 1	-1	0	1	.2775	-1	0	1	.2407
302	M30 4P10 5P	8-B- 2	-2	0	1	.5782	0	0	0	1.0000
303	M30 4P11W	8-B- 3	0	0	2	.2300	-1	0	1	.4375
304	M30 4P11 5P	8-B- 4	0	0	1	.2571	0	0	0	.1607
305	M30 4P12W	8-B- 5	0	0	1	.2574	0	0	1	.1642
306	M30 4P13W	8-B- 6	1	0	1	.4441	0	0	1	.2559
307	M31 2P10W	8-B- 7	0	0	1	.2078	0	0	0	1.0000
308	M31 2P10 5PRL	8-B- 8	0	0	1	.2571	0	0	0	1.0000
309	M31 2P10 5PRD	8-B- 9	1	0	1	.4314	0	0	0	.2569
310	M31 2P10 5PRH	8-B-10	1	0	1	.1397	0	0	1	.0260
311	M31 2P11W	8-B-11	1	0	1	.4067	-1	1	1	.2202
312	M31 2P11 5P	8-B-12	0	0	1	.1207	0	-1	1	.1272
313	M31 2P12W	8-B-13	0	0	1	.5997	-1	0	1	.0781
314	M31 2P13W	8-B-14	0	0	1	.0458	0	1	1	.4189
315	M31 2P14W	8-B-15	-1	-1	1	.4096	0	0	0	1.0000
316	B40P8MMRH(BB)	8-B-16	0	-2	1	.9191	0	0	1	.1474
317	B32P10MMP	8-B-17	-1	0	1	.3414	0	0	0	.0635
318	B40P8MMRD(BB)	8-B-18	-1	0	1	.2879	0	0	0	.1369
319	B32P10 5MMP	8-B-19	0	0	0	1.0000	0	0	0	1.0000
320	B40P8MMRV(BB)	8-B-20	0	0	0	.0785	-1	0	1	.2059
321	M31 8P11 2PRH	8-B-21	0	0	1	.6102	0	0	0	1.0000
322	M31 8P11 2PRD	8-B-22	0	0	1	.3647	0	0	1	.1898
323	M31 8P11 2PRL	8-B-23	0	0	0	.4181	0	0	1	.0534
324	M31 8P11 5P	8-B-24	0	0	0	1.0000	0	0	0	1.0000
325	M31 8P12W	8-B-25	0	0	0	1.0000	0	0	0	1.0000
326	M31 8P13W	8-B-26	-1	0	1	.3847	0	0	1	.0567
327	M31 8P14W	8-B-27	0	0	0	1.0000	0	0	0	1.0000
328	M32 4P10W	8-B-28	0	0	1	.5324	0	-1	1	.4165
329	M32 4P10 5P	8-B-29	0	0	0	.0785	0	0	0	1.0000
330	M32 4P10 7P	8-B-30	0	0	0	.0785	0	0	0	1.0000
331	M32 4P11 1P	8-B-31	0	0	0	.0785	0	0	1	.1356
332	M32 4P11 3P	8-B-32	0	0	0	1.0000	0	0	0	1.0000
333	M32 4P11 5PRH	8-B-33	0	0	1	.6225	0	0	1	.1907
334	M32 4P11 5PRD	8-B-34	0	0	0	.0955	0	0	0	1.0000
335	M32 4P11 5PRL	8-B-35	0	0	1	.2569	0	0	0	.2697
336	M32 4P12W	8-B-36	0	0	0	.2467	0	0	0	1.0000
337	M32 4P13W	8-B-37	0	0	1	.2833	0	0	1	.2445
338	M32 4P14W	8-B-38	0	0	0	1.0000	0	0	1	.2199
339	M31 2S11W	8-B-39	-1	0	1	.5451	-1	1	1	.1940
340	M31 2S12W	8-B-40	0	0	1	.1467	0	0	1	.2394
341	M31 2S13W	8-B-41	0	0	1	.4061	0	-1	1	.1349
342	M31 2S14W	8-B-42	0	0	1	.0835	0	0	0	1.0000
343	M31 8S11W	8-B-43	0	0	1	.1207	0	0	0	1.0000
344	M31 8S11 2PRL	8-B-44	0	0	1	.2550	0	0	1	.1531
345	M31 8S11 2PRD	8-B-45	1	0	1	.6105	-1	1	1	.2897
346	M31 8S11 2PRH	8-B-46	0	0	1	.2494	0	0	0	1.0000
347	M31 8S12W	8-B-47	0	0	1	.2418	0	0	0	1.0000
348	M31 8S13W	8-B-48	0	0	1	.3801	0	0	1	.1802
349	M31 8S14W	8-B-49	0	0	1	.1595	0	0	0	1.0000
350	M32 6S10W	8-B-50	0	0	1	.1229	0	0	0	.2257
351	M32 6S10 7P	8-B-51	0	0	1	.2492	0	0	0	1.0000
352	M32 6S11 3P	8-B-52	0	0	0	1.0000	0	0	0	1.0000
353	M32 6S12W	8-B-53	0	0	1	.2191	0	0	0	.2099
354	M32 6S13W	8-B-54	-1	0	1	.1942	-1	1	1	.1049
355	M32 6S14W	8-B-55	0	0	0	1.0000	0	0	0	1.0000
356	H24 1S17 5P(HSL)	8-B-56	0	-1	1	.6554	4	-2	2	.5226
357	H24 1S17 5P(HSU)	8-B-57	-1	0	1	.2739	-1	-1	1	.3548
358	H24 2S20 5P(HSL)	8-B-58	0	0	1	.1987	3	0	2	.7558
359	H24 2S20 5P(HSU)	8-B-59	0	0	1	.2478	-2	0	1	.5687
360	W52P22T(D)	8-B-60	0	0	1	.2462	0	1	1	.2982
361	M21P13 5P	7- - 1	0	0	0	1.0000	15	31	3	.9916
362	M21P12W	7- - 2	-6	6	13	.6379	29	-2	23	.5600
363	M21P6W	7- - 3	-206	17	4	.9993	16	-60	9	.9005
364	M21P2W	7- - 4	-200	13	3	.9996	15	-32	4	.9493
365	M21C0W	7- - 5	0	0	0	1.0000	0	0	0	1.0000
366	M21S2W	7- - 6	-192	-8	29	.9413	-39	27	22	.5576
367	M21S4W	7- - 7	-241	16	2	.9999	19	34	4	.9890
368	M21S6W	7- - 8	-186	10	3	.9994	6	73	2	.9983
369	M21S8W	7- - 9	-191	7	8	.9962	-1	81	4	.9947
370	M21S10W	7- -10	-158	13	3	.9993	15	85	3	.9975
371	M21S11 5P	7- -11	-147	4	4	.9987	-2	79	3	.9962
372	M21S12W	7- -12	-93	8	2	.9995	7	86	2	.9994
373	M21S12 5P	7- -13	-75	17	3	.9988	21	72	4	.9961
374	M21S13W	7- -14	-110	12	3	.9988	14	86	3	.9980
375	H21S13 5P	7- -15	-47	8	4	.9929	6	100	4	.9974

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
376	H16 25ISP(CL)	7- -16	-134	8	3	9989	10	50	3	9945
377	H21COA	7- -17	170	19	7	9934	16	8	7	8529
378	H21S2W	7- -18	169	10	8	9933	6	26	7	9113
379	H21P2W	7- -19	17	0	6	9972	-15	-25	4	9733
380	H21S5W	7- -20	147	6	2	9995	5	29	2	9937
381	H21S7W	7- -21	103	7	2	9987	3	39	2	9933
382	H21P7W	7- -22	79	16	8	5523	14	-30	11	6735
383	H21S9W	7- -23	67	4	1	9969	2	51	[illegible]	9984
384	H21S11W	7- -24	132	3	1	9998	-5	85	2	9989
385	H21P11W	7- -25	74	11	2	9964	9	-56	3	9929
386	H21S13W	7- -26	60	0	3	9952	-5	63	4	9287
387	H21S13 SP	7- -27	7	3	2	7446	-7	77	4	9934
388	H21P13 SP	7- -28	-15	5	2	9895	-4	-84	2	9990
389	H21S 4W	7- -29	22	40	37	8014	-62	135	521	2415
390	H21S 6W	7- -30	-78	7	2	9991	5	80	2	9990
391	H2 P 6W	7- -31	-115	3	2	9994	1	-78	[illegible]	9993
392	H21S18W	7- -32	66	[illegible]	3	9955	-2	56	4	9902
393	H2 P18W	7- -33	-172	[illegible]	23	9596	[illegible]	-83	4	9935
394	T33COW	7- -34	-42	-2	4	9680	-18	-1	4	9337
395	T35COW	7- -35	32	8	13	6146	-20	20	23	2365
396	T37COW	7- -36	26	28	47	5429	-45	-18	45	5616
397	T39COW	7- -37	22	-2	45	0915	27	28	76	2331
398	T41COW	7- -38	-37	-7	25	3728	-11	15	21	0613
399	T43COW	7- -39	15	8	1	9974	5	-1	2	8073
400	T45COW	7- -40	-5	5	2	9797	-3	[illegible]	1	6298
401	T47COW	7- -41	-8	8	2	5878	4	0	2	7152
402	Z33COW	7- -42	-36	3	3	9862	-2	-2	2	7644
403	Z35COW	7- -43	-50	8	2	9985	4	3	2	9075
404	Z37COW	7- -44	-122	3	2	9996	-5	-2	1	9149
405	Z39COW	7- -45	-178	5	2	9997	7	1	2	8966
406	Z41COW	7- -46	-224	4	2	9997	0	0	0	1 0000
407	Z43COW	7- -47	-281	5	3	9997	-2	-4	2	8466
408	Z45COW	7- -48	-31[illegible]	7	3	9999	0	-4	2	7293
409	Z47COW	7- -49	-440	6	20	9956	-3	19	29	0553
410	M33COW	7- -50	-284	12	16	9936	13	12	11	7105
411	M35COW	7- -51	-402	5	9	9988	0	7	7	3426
412	M37COW	7- -52	0	0	0	1 0000	0	0	0	1 0000
413	M39COW	7- -53	0	0	0	1 0000	0	0	0	1 0000
414	M41COW	7- -54	0	0	0	1 0000	0	0	0	1 0000
415	M43COW	7- -55	0	0	0	1 0000	0	0	0	1 0000
416	M45COW	7- -56	0	0	0	1 0000	0	0	0	1 0000
417	M47COW	7- -57	0	0	0	1 0000	0	0	0	1 0000
418	B40S8MMW(C)	7- -58	0	0	0	1 0000	0	0	0	1 0000
419	B40S12MMP(C)	7- -59	0	0	0	1 0000	0	0	0	1 0000
420	B16P 21DB1	7- -60	0	0	0	1 0000	0	0	0	1 0000
421	[illegible]33 3COP	7-A- 1	248	11	11	9942	4	-9	17	1803
422	[illegible]37COP	7-A- 2	380	3	9	9987	18	-5	9	6611
423	[illegible]41COP	7-A- 3	408	16	11	9981	24	-2	8	8646
424	[illegible]45 3COP	7-A- 4	377	11	4	9997	15	1	6	8299
425	F33 3COW	7-A- 5	-27	13	3	9956	14	2	3	9517
426	F37COW	7-A- 6	-17	10	2	9952	7	0	2	8573
427	F41COW	7-A- 7	-13	15	4	9895	11	3	11	5125
428	F45 3COW	7-A- 8	-9	9	2	9942	10	0	3	9016
429	H33COP	7-A- 9	605	4	5	9998	1	-6	6	2043
430	H35COP	7-A-10	0	0	0	1 0000	0	0	0	1 0000
431	H37COP	7-A-11	555	5	4	9998	-4	8	8	2219
432	H39COP	7-A-12	602	9	12	9990	5	5	5	6845
433	H41COP	7-A-13	667	12	9	9996	18	2	11	6819
434	H43COP	7-A-14	0	0	0	1 0000	0	0	0	1 0000
435	H45COP	7-A-15	0	0	0	1 0000	0	0	0	1 0000
436	H21COP	7-A-16	0	0	0	1 0000	0	0	0	1 0000
437	M33S11 1P	7-A-17	-318	13	6	9992	13	143	4	9984
438	M33P11 1P	7-A-18	-269	21	14	.9958	17	-117	15	9566
439	M35S11 1P	7-A-19	-360	-5	8	9989	-10	162	8	9934
440	M37S11 1P	7-A-20	-344	1	17	.9941	16	174	20	9736
441	M37P11 1P	7-A-21	-399	-2	22	9929	-9	-160	35	9112
442	M39S11 1P	7-A-22	-46	-36	35	.7319	-29	91	275	2257
443	M41S11 1P	7-A-23	-356	3	3	9999	-1	157	3	9991
444	M41P11 1P	7-A-24	-449	13	10	9989	-5	-164	2	9997
445	M43S11 1P	7-A-25	366	12	2	.9999	15	192	2	9997
446	M45S11 1P	7-A-26	-380	6	3	9999	-1	213	3	9995
447	M45P11 1P	7-A-27	-480	3	3	9999	1	-241	2	9999
448	M47S11 1P	7-A-28	-207	11	5	9991	-4	204	2	9997
449	M33S14P	7-A-29	-378	6	26	9901	78	139	93	7291
450	M33P14P	7-A-30	0	0	0	1 0000	0	0	0	1 0000

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
451	M35S14P	7-A-31	-396	5	5	.9996	12	231	7	.9982
452	M37S14P	7-A-32	-356	0	5	.9996	-8	227	9	.9958
453	M37P14P	7-A-33	0	0	0	1.0000	13	-249	5	.9989
454	M39S14P	7-A-34	-300	-9	29	.9757	-46	254	103	.6886
455	M41S14P	7-A-35	-267	-84	128	.5557	14	122	334	.1684
456	M41P14P	7-A-36	-276	1	21	.9869	8	-122	71	.5775
457	M43S14P	7-A-37	-163	-81	199	.3084	-335	22	294	6017
458	M45S14P	7-A-38	-374	-7	12	9975	-42	278	22	9822
459	M45P14P	7-A-39	0	0	0	1 0000	0	0	0	1 0000
460	M47S14P	7-A-40	-404	8	14	.9973	6	286	9	.9976
461	W32 1SMZO 1RV	7-A-41	149	8	36	.8620	5	-58	4	9869
462	W32.1SMZO.1RD	7-A-42	-714	10	10	.9996	-1	129	4	.9979
463	W32 1SMZO 1RL	7-A-43	-407	-7	14	.9971	6	147	2	.9997
464	W32 1SZTO 1P	7-A-44	16	-12	34	.5271	0	-35	17	.6967
465	W35SMZO.5P	7-A-45	-414	1	8	9991	14	175	4	.9989
466	W35SMZ2W	7-A-46	-303	-4	6	.9991	-2	78	9	9703
467	W35SZM3.9P	7-A-47	-357	7	5	9996	-5	62	4	9914
468	W35SZTO 1P	7-A-48	-291	10	4	.9996	4	55	3	9937
469	W35SZT2W	7-A-49	-108	-5	22	9033	3	22	21	4280
470	W35STZ3 9P	7-A-50	-121	10	4	.9980	4	13	6	8066
471	M49 5S9P(FD)	7-A-51	-348	12	18	.9950	10	150	17	9737
472	M49 5S9P(AD)	7-A-52	-382	7	13	.9976	2	166	8	9951
473	B48S2MMW(C)	7-A-53	-127	10	14	.9818	6	14	5	8914
474	B56S10 1MMP(C)	7-A-54	-77	7	15	9435	1	27	12	7102
475	B40S3MMS(BM)	7-A-55	-27	-2	14	.5764	3	-17	5	.8068
476	B40S3MMP(BM)	7-A-56	-149	6	3	9991	6	6	3	.8855
477	B40S3MZS	7-A-57	-103	5	4	9966	3	1	2	7014
478	B40S3MZP	7-A-58	-97	0	7	.9892	3	-1	3	.5359
479	B48S5MMP	7-A-59	-102	1	8	.9854	9	12	3	9443
480	H44S19(D)	7-A-60	-8C	7	3	.9982	4	7	3	8520
481	T49P10W	7-B- 1	-319	10	9	9983	12	-86	7	9791
482	T49P6W	7-B- 2	-87	10	12	9728	10	-25	5	8718
483	T49C0W	7-B- 3	-8	17	9	9508	26	4	6	9422
484	T49S2W	7-B- 4	-23	11	4	.9884	11	14	4	.9353
485	T49S4W	7-B- 5	-16	12	4	9849	14	18	3	.9786
486	T49S6W	7-B- 6	-67	7	2	9980	0	0	0	1 0000
487	T49S8W	7-B- 7	-182	12	6	9982	10	57	7	9727
488	T49S10W	7-B- 8	-304	6	3	9997	5	88	3	9973
489	T49S10 5P	7-B- 9	-414	2	6	9996	4	108	5	9946
490	T49S10 9P	7-B-10	-465	8	10	.9990	15	125	3	.9986
491	Z49P10W	7-B-11	-541	2	6	9997	-1	-160	7	9956
492	Z49P6W	7-B-12	-376	9	2	.9999	4	-103	4	9960
493	Z49C0W	7-B-13	0	0	0	1 0000	0	0	0	1.0000
494	Z49S2W	7-B-14	-412	7	4	.9998	10	23	4	9712
495	Z49S4W	7-B-15	-473	9	4	.9999	1	65	3	9963
496	Z49S6W	7-B-16	-544	11	6	.9998	10	88	5	.9947
497	Z49S8W	7-B-17	-306	14	2	.9999	10	83	2	.9989
498	Z49S10W	7-B-18	-469	6	2	9999	5	164	2	9998
499	Z49S10 5P	7-B-19	-488	0	5	.9997	-10	179	4	.9988
500	Z49S10 9P	7-B-20	-486	0	6	.9996	0	184	3	9994
501	W49SMZ2W	7-B-21	-152	2	5	9976	3	132	2	9996
502	W49SZM3 9P	7-B-22	-517	-2	11	.9988	10	181	10	9934
503	W49SMZO 1RL	7-B-23	-376	7	2	.9999	4	220	1	9999
504	W49SMZO 1RD	7-B-24	-412	12	7	.9994	-5	116	2	9989
505	W49SMZO 1RV	7-B-25	306	7	6	9991	12	-101	4	.9946
506	W49SZT2W	7-B-26	-466	0	4	.9999	-9	139	2	9993
507	W49STZ3 9P	7-B-27	-455	5	6	.9997	0	119	2	9995
508	W49SZTO 1RL	7-B-28	-472	-2	5	.9997	-2	174	1	9998
509	W49SZTO 1RD	7-B-29	42	10	8	.8611	17	24	3	.9889
510	W49SZTO.1RV	7-B-30	171	9	3	.9988	5	-9	2	7807
511	M49P14W	7-B-31	0	0	0	1.0000	0	0	0	1.0000
512	M49P13W	7-B-32	-436	-5	8	.9993	2	-155	18	9700
513	M49P11 1P	7-B-33	-394	13	6	.9996	5	-215	12	9928
514	M49P10W	7-B-34	-356	0	6	.9994	-13	-199	5	9989
515	M49P6W	7-B-35	-353	5	31	.9834	0	-120	19	9442
516	M49P2W	7-B-36	-438	16	9	.9992	14	-40	7	8814
517	M49C0W	7-B-37	-345	1	5	9994	-13	2	4	8479
518	M49S2W	7-B-38	-503	9	8	.9994	-3	38	3	9820
519	M49S4W	7-B-39	-479	11	10	.9991	4	84	3	9960
520	M49S6W	7-B-40	-384	9	4	.9998	-3	108	3	9984
521	M49S8W	7-B-41	-366	10	5	.9996	6	157	3	9993
522	M49S9.5P	7-B-42	-376	5	5	.9996	0	184	2	9998
523	M49S10W	7-B-43	-357	10	5	9996	7	199	2	9998
524	M49S10 5P	7-B-44	-388	3	5	.9997	-3	209	5	9985
525	M49S10 9P	7-B-45	-374	9	3	.9999	11	225	2	.9999

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
526	M49S12W	7-B-46	-379	4	5	9995	-1	252	4	9995
527	M49S12 5P	7-B-47	-370	8	4	9997	1	240	2	9998
528	M49S13W	7-B-48	-416	9	7	9995	6	284	3	9998
529	M49S13 5P	7-B-49	0	0	0	1 0000	0	0	0	1 0000
530	M49S14W	7-B-50	-384	11	4	9997	18	291	6	9990
531	M49S11 1P	7-B-51	-388	2	13	9976	12	213	22	9779
532	B48COMMS(C)	7-B-52	-180	5	29	9499	-2	-1	27	2482
533	Z38S3 5P(C)	7-B-53	-248	9	4	9595	6	-4	4	5697
534	Z33S3 5P(C)	7-B-54	-176	5	4	9987	16	-27	8	7440
535	Z33S3 5P(C)	7-B-55	-176	-1	4	9986	-2	-16	5	8791
536	Z43P3 5P(CO)	7-B-56	-321	7	2	9999	6	-41	3	9855
537	Z43P3 5P(CI)	7-B-57	-294	6	2	9999	3	-40	2	9937
538	Z53P3 5P(CI)	7-B-58	-403	2	5	9996	1	-60	2	9966
539	Z53P3 5P(CO)	7-B-59	-442	5	2	9999	7	-60	3	9934
540	H52S18(O)	7-B-60	-169	9	2	9997	6	-19	3	9096
541	H16 2S15P(CL)	6- -1	0	0	0	1 0000	0	0	0	1 0000
542	H49P3W	6- -2	616	10	2	9999	10	-64	3	9944
543	H39P7W	6- -3	502	11	4	9998	11	-141	4	9976
544	H49P10W	6- -4	370	7	5	9995	5	-205	3	9993
545	H49P12W	6- -5	290	11	8	9978	5	-233	5	9987
546	H49P15 5P	6- -6	6	14	2	9957	18	-262	3	9995
547	H49P18W	6- -7	-1	0	1	2821	0	0	0	1 0000
548	H49S1W	6- -8	690	9	2	9999	13	26	2	9954
549	H49S3W	6- -9	603	7	2	9999	8	61	1	9993
550	H49S5W	6- -10	546	11	2	9999	18	100	2	9990
551	H49S7W	6- -11	532	-4	5	9998	-10	146	6	9955
552	H49S9W	6- -12	447	-3	2	9999	-7	191	2	9996
553	H49S10W	6- -13	377	14	3	9998	20	205	2	9998
554	H49S11W	6- -14	328	8	2	9999	11	214	2	9999
555	H49S12W	6- -15	284	8	2	.9998	13	232	2	9998
556	H49S13W	6- -16	196	10	2	9997	12	247	2	9999
557	H49S15 5P	6- -17	-10	9	3	.9839	6	267	4	9994
558	H49S16W	6- -18	-90	6	10	.9781	-5	213	45	9052
559	H49S18W	6- -19	0	0	0	1 0000	0	0	0	1 0000
560	H49S19W	6- -20	-359	13	3	9999	12	305	2	9999
561	H45S11 5P	6- -21	276	12	2	9999	18	224	2	9998
562	H45S16 5P	6- -22	-33	10	5	9845	20	238	4	9994
563	T46S10 9P	6- -23	-346	16	6	.9995	22	99	3	9986
564	T46S7W	6- -24	-140	9	2	.9997	9	44	2	9977
565	T39S10 9P	6- -25	-295	9	1	9999	11	75	2	9989
566	T39S7W	6- -26	0	0	0	1.0000	0	0	0	1 0000
567	T36S10 9P	6- -27	-185	14	3	9997	12	45	2	9957
568	T36S7W	6- -28	-49	11	2	9984	13	33	2	9951
569	M46S8W	6- -29	-371	15	3	9999	12	134	2	9996
570	M43S4W	6- -30	-371	12	2	9999	8	133	2	9997
571	M43S6W	6- -31	-338	12	3	9999	10	60	1	9992
572	M39S7W	6- -32	0	0	0	1 0000	12	97	2	9992
573	M39S8W	6- -33	-323	19	10	9981	17	121	8	9929
574	M30S11W	6- -34	-219	18	29	.9738	2	142	18	9666
575	M30S8W	6- -35	-301	-3	56	9243	-81	99	114	1808
576	M37S11W	6- -36	180	-16	102	6915	74	-115	190	1528
577	M37S8W	6- -37	-224	13	47	9271	-75	48	141	1151
578	H55S13W	6- -38	0	0	0	1 0000	0	0	0	1 0000
579	H55P16 5P	6- -39	-54	15	4	9968	18	-20	4	8965
580	T54P7W	6- -40	23	14	4	9916	18	329	5	9994
581	[illegible] 9P	6- -41	-263	-32	55	8612	5	-29	14	6224
582	T54P7W	6- -42	-29	6	6	9557	2	14	6	7589
583	T54P10 9P	6- -43	-157	13	17	.9822	-3	53	21	7291
584	M54S8 5P	6- -44	371	8	3	9998	1	165	4	9984
585	H59COT	6- -45	0	0	0	1 0000	0	0	0	1 0000
586	H57COP	6- -46	821	9	7	9998	23	-3	6	8857
587	H57S13W	6- -47	0	0	0	1 0000	11	252	3	9997
588	H55COP	6- -48	0	0	0	1.0000	4	22	23	4281
589	H53COP	6- -49	0	0	0	1.0000	0	0	0	1 0000
590	H53P13W	6- -50	316	9	2	9999	12	-253	2	9998
591	H53S13W	6- -51	338	9	26	9848	15	250	13	9944
592	[illegible]	6- -52	0	0	0	1 0000	0	0	0	1 0000
593	H51S14P	6- -53	-384	12	6	7996	4	294	3	9997
594	[illegible] 5COP	6- -54	385	-12	29	9884	1	8	14	1227
595	F57COP	6- -55	0	0	0	1 0000	14	-1	3	9122
596	F49COW	6- -56	-3	12	2	9965	14	1	3	9485
597	F52 5COW	6- -57	[illegible]	15	3	9915	17	4	4	9409
598	F57COW	6- -58	0	0	0	1 0000	0	0	0	1 0000
599	H54 8S21P(C)	6- -59	-375	10	6	.9995	14	255	13	9942
600	H20S13 5P(D)	6- -60	1	11	2	9947	13	0	2	9610

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
601	TS1COW	6-A- 1	0	0	0	1 0000	0	0	0	1 000C
602	TS3COW	6-A- 2	-9	12	3	9916	17	4	5	9178
603	TS4COW	6-A- 3	-49	-13	30	4338	-22	-3	20	5220
604	TS5COW	6-A- 4	32	9	35	.1628	-52	-7	74	3378
605	260S10.9P	6-A- 5	-1540	-57	61	9958	1	409	6	9995
606	260S6W	6-A- 6	-897	18	11	9997	-1	133	30	898C
607	260COW	6-A- 7	-1	0	1	3483	0	0	1	C426
608	259S10 9P	6-A- 8	-1224	-33	39	9974	15	328	4	9996
609	259COW	6-A- 9	-672	9	5	9999	7	3	2	9442
610	258S10 9P	6-A-10	-943	-41	46	.9933	18	261	4	9995
611	258S6W	6-A-11	-611	6	5	9998	-8	112	5	9949
612	258COW	6-A-12	-639	-1	14	9988	-29	-8	53	2676
613	257COW	6-A-13	-630	22	5	9999	2[illegible]	-1	5	9163
614	257S10.9P	6-A-14	-636	-53	56	.9748	8	198	5	9986
615	256.2P10.9P	6-A-15	-717	-1	8	.9997	-5	-226	14	5913
616	256.2COW	6-A-16	-656	15	7	9998	-6	122	5	9964
617	256.2P6W	6-A-17	-640	11	5	9999	4	-6	2	7432
618	256 2S6W	6-A-18	-675	14	5	.9999	13	131	2	9993
619	256.2S10 9P	6-A-19	-829	-3	4	9999	-2	350	62	9337
620	255COW	6-A-20	-585	14	10	9994	8	3	6	6397
621	255S10 9P	6-A-21	-759	9	5	9999	19	216	5	9989
622	254COW	6-A-22	-588	14	4	9999	19	2	3	9650
623	255S6W	6-A-23	-629	21	3	9999	22	140	4	9989
624	254S10 9P	6-A-24	-727	7	7	9998	11	220	3	9997
625	253COW	6-A-25	-551	11	5	.9998	9	-1	3	8634
626	251COW	6-A-26	0	0	0	1 0000	0	0	0	1 000C
627	M51COW	6-A-27	0	0	0	1 0000	0	0	0	1 0000
628	M51S11.1P	6-A-28	-393	10	2	.9999	14	230	3	9997
629	149COP	6-A-29	411	12	4	.9998	13	-3	3	8806
630	M53COW	6-A-30	0	0	0	1 0000	0	0	0	1 0000
631	M53S11.1P	6-A-31	-355	11	2	9999	12	231	2	9998
632	M53S14P	6-A-32	-427	12	3	.9999	16	303	3	9998
633	M53P11 1P	6-A-33	-396	14	5	.9997	12	-224	5	9989
634	M53P14	6-A-34	0	0	0	1.0000	11	-294	8	9981
635	M55COW	6-A-35	-391	11	41	.9779	18	8	34	0898
636	M55S11.1P	6-A-36	344	-8	22	.9913	-1	-237	17	9684
637	M55S14P	6-A-37	-490	9	26	.9940	0	331	15	9953
638	M57COW	6-A-38	-433	9	15	.9973	0	0	0	1 000C
639	M57S11 1P	6-A-39	-468	22	3	.9999	20	331	5	9995
640	M57S14P	6-A-40	-326	16	3	.9998	17	230	5	9992
641	M57P14	6-A-41	0	0	0	1.0000	0	0	0	1 0000
642	M57P11.1P	6-A-42	-499	11	4	.9999	-6	-326	5	9995
643	M59COW	6-A-43	0	0	0	1 0000	0	0	0	1 0000
644	M59S14P	6-A-44	-441	8	3	.9999	-1	315	4	9997
645	M59S11 1P	6-A-45	-344	1	4	.9997	-32	230	25	9668
646	W55 9SM20 1RV	6-A-46	-140	12	26	.9503	20	222	24	9777
647	W55 9SM20.1RD	6-A-47	126	8	25	.8995	4	259	18	5898
648	W55 9SM20 1RL	6-A-48	-313	-8	28	.9792	-5	160	22	9569
649	W55 9ST20 1RV	6-A-49	210	19	9	.9933	7	-69	9	9515
650	W55 9ST20 1RD	6-A-50	-211	13	34	9560	3	11	5	7711
651	W55 9ST20 1RL	6-A-51	-756	2	20	9983	7	285	45	9489
652	W55 9S2M3 9RV	6-A-52	225	16	23	.9670	7	-60	7	9609
653	W55 9S2M3 9RD	6-A-53	-336	15	12	9977	7	103	6	9953
654	W55 9S2M3.9RL	6-A-54	-792	6	6	.9999	13	234	5	9989
655	W56 1S2M3 9RL	6-A-55	-4	-4	19	.0900	-2	-1	5	1850
656	W56 1S2M3 9RD	6-A-56	14	-2	18	4191	10	9	8	7387
657	W56 1S2M3 9RV	6-A-57	-98	13	29	.8984	24	-3	18	5576
658	M58 3P20P	6-A-58	203	16	4	.9986	23	-297	6	9989
659	RESISTOR	6-A-59	-3	1	4	.4787	-8	3	7	4178
660	W52S2M2(D)	6-A-60	-2	11	5	.9549	14	-4	5	7993
661	B56COTTP	6-B- 1	0	0	0	1 0000	0	0	0	1 0000
662	B56COTTS	6-B- 2	-444	16	6	.9994	9	-18	6	7103
663	B56P4TTP	6-B- 3	-31	14	17	.8803	-9	-72	15	9231
664	B56P4TTS	6-B- 4	-389	8	13	.9978	-2	-105	10	9820
665	B56P8TTP	6-B- 5	-202	9	61	8594	-5	-151	39	8765
666	B56P8TTS	6-B- 6	-174	12	11	.9936	10	-30	5	9026
667	B56C02TP	6-B- 7	-1	0	1	.1508	0	0	1	0892
668	B56C02TS	6-B- 8	-90	15	7	9938	12	-1	7	6760
669	B56P42TP	6-B- 9	-197	9	32	.9833	-5	-121	21	9409
670	B56P42TS	6-B-10	-17	17	8	9853	14	-26	4	8908
671	B56P82TP	6-B-11	-180	-2	46	.8683	-1	-121	31	8777
672	B56P82TS	6-B-12	-109	2	17	.9500	-5	-68	10	9569
673	B56COM2P	6-B-13	-131	18	27	9477	22	-35	5	9022
674	B56COM2S	6-B-14	-79	12	24	.9012	5	-29	3	9683
675	B56COMFP	6-B-15	-42	13	18	8878	2	-29	14	6522

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	SENSITIVITY/100% DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
676	B56COMFS	6-B-16	-9	11	9	8954	4	-5	4	3202
677	B56P8MFP	6-B-17	-27	9	8	9448	5	-24	3	9454
678	B56P8MFS	6-B-18	5	16	40	4258	17	-89	18	8903
679	B56COF1P	6-B-19	-45	9	13	9206	10	74	62	4981
680	B56COF1S	6-B-20	-87	11	5	9958	14	-6	3	9092
681	B56P6F1P	6-B-21	31	13	14	6725	19	-27	4	9026
682	B56P6F1S	6-B-22	36	12	7	8768	20	-17	4	9118
683	B56S4TTP	6-B-23	-103	27	31	9308	34	41	14	9260
684	B56S4TTS	6-B-24	-311	11	11	9976	19	78	17	9370
685	B16P211W(C)	6-B-25	-25	7	16	7643	10	11	4	9386
686	B56S8TTS	6-B-26	0	0	0	1 0000	0	0	0	1 0000
687	B56S4ZTP	6-B-27	-143	15	29	9431	21	35	8	9551
688	B56S4ZTS	6-B-28	-140	14	14	9862	21	50	15	9066
689	B56S8ZTP	6-B-29	-97	8	30	8747	19	69	9	9721
690	B56S8ZTS	6-B-30	-41	11	10	.9552	10	33	3	9856
691	B56S8MFP	6-B-31	-55	6	4	.9917	0	0	0	1 0000
692	B56S8MFS	6-B-32	49	20	40	.3876	19	37	9	9451
693	B56S6F1P	6-B-33	31	13	16	6007	22	4	3	9820
694	B56S6F1S	6-B-34	46	7	5	9496	15	9	4	9376
695	B56COHHRH	6-B-35	-192	15	8	9968	12	6	10	6560
696	B56COHHRD	6-B-36	139	-9	10	9918	3	-17	5	7779
697	B56COHHRV	6-B-37	82	13	20	8127	13	10	11	7044
698	B56P711RV	6-B-38	73	9	22	7578	0	0	0	1 0000
699	B56P711RD	6-B-39	76	12	8	.9538	2	0	9	2038
700	B56P711RH	6-B-40	141	14	13	9696	26	-27	8	7843
701	B56P111FRV	6-B-41	14	6	12	3883	12	11	6	8718
702	B56P111FRD	6-B-42	-360	11	12	9978	7	65	4	9911
703	B56P111FRH	6-B-43	-30	16	6	9876	25	3	7	9126
704	B56P13FFRV	6-B-44	13	4	8	4229	1	31	2	9921
705	B56P13FFRD	6-B-45	-150	5	7	.9952	-2	63	6	9805
706	B56P13FFRH	6-B-46	7	15	4	9755	22	-58	14	8200
707	B56S711RH	6-B-47	64	7	6	.9671	8	0	4	7371
708	B56S711RD	6-B-48	-84	-15	41	5353	-3	4	27	2519
709	B56S711RV	6-B-49	45	11	17	6194	13	9	9	7763
710	B56S111FRH	6-B-50	202	10	8	9960	7	53	8	9564
711	B56S111FRD	6-B-51	392	11	19	9939	15	56	10	9531
712	B56S111FRV	6-B-52	-63	13	7	.9868	13	-25	3	9295
713	B56S13FFRH	6-B-53	-9	8	4	9563	2	118	22	9319
714	B56S13FFRD	6-B-54	8	10	8	.8421	9	-29	4	9384
715	B56S13FFRV	6-B-55	-193	8	10	.9949	8	-59	8	9469
716	M36 1S4PIC,	6-B-56	48	13	4	.9667	11	2	5	8318
717	M36S4PIC!	6-B-57	-612	23	6	.9998	17	81	5	9940
718	M32 1S9PIC	6-B-58	-344	10	9	.9986	20	185	6	9983
719	M32 1P 5PIC.	6-B-59	-369	14	4	9998	30	1	7	9285
720	RESISTOR	6-B-60	103	12	6	9884	10	25	6	8973
721	APMM36C1PA	5- - 1	-199	14	22	9794	-36	176	102	5299
722	APMM36C2PA	5- - 2	-896	6	40	9954	-18	-17	11	8261
723	APMM36C3PA	5- - 3	-985	9	19	9992	-1	-219	14	9911
724	APMM36C4PA	5- - 4	-360	-26	17	9926	11	-149	4	9981
725	APMM36C5PA	5- - 5	-426	-1	29	.9893	11	-140	16	9659
726	APMM36P3PA4	5- - 6	-404	4	6	.9995	10	-180	2	9995
727	APMM36C1PF	5- - 7	-357	6	6	9995	1	-214	6	9984
728	APMM36C2PF	5- - 8	-407	11	4	9998	15	-251	5	9992
729	APMM36C3PF	5- - 9	-719	0	8	9997	-19	-504	7	9996
730	APMM36C4PF	5- -10	-551	11	8	9995	20	-569	5	9998
731	APMM36C5PF	5- -11	31	8	6	8457	10	-293	2	9998
732	APMM36P1PFC 5	5- -12	-437	7	5	9997	11	-258	3	9997
733	APMM36P3PFO 5	5- -13	-466	12	5	9998	14	-273	4	9995
734	APMM36P5PFO 5	5- -14	-614	7	4	.9999	8	-360	3	9998
735	APMM36RLPF	5- -15	-679	12	5	9999	15	-438	5	9997
736	APMM36RDPF	5- -16	-283	11	4	9995	12	-294	4	9996
737	APMM36RHPF	5- -17	326	17	12	9958	11	-4	20	0548
738	APMM36P3PF2	5- -18	-445	6	35	9865	9	-231	19	9832
739	APMM36P3PF4	5- -19	-428	1	13	.9980	4	-216	5	9985
740	M35 3P11 1P	5- -20	-394	6	6	9994	14	-199	4	9990
741	M35 3P11 5P	5- -21	-417	18	26	.9928	11	-178	7	9964
742	M35 3P12P	5- -22	-278	1	30	9738	-24	-201	77	7957
743	M38 6P11 7P	5- -23	-204	12	3	9996	9	-199	1	9999
744	APMZ33C315	5- -24	-23	15	5	9890	9	-16	2	9070
745	APMZ33C308	5- -25	260	-4	8	.9979	11	33	3	9897
746	APMZ33C30C(R)	5- -26	2	-3	2	9051	-10	2	4	7994
747	APMZ33C293	5- -27	-731	29	22	9983	13	-124	3	9980
748	APMZ33RVMM	5- -28	11	-7	13	4841	0	26	1	9948
749	APMZ33RDMM	5- -29	-1	0	2	2064	0	0	0	1 0000
750	APMZ33RLMM	5- -30	-225	13	4	9993	15	-108	4	9962

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	SENSITIVITY/100% DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
751	APMZ33RLMA	5- -31	0	0	1	2563	0	0	0	1 0000
752	APMZ33RDMA	5- -32	-672	22	14	9992	1	-144	2	9997
753	APMZ33RVMA	5- -33	-40	20	9	9785	0	36	6	9344
754	APZZ38C2PA	5- -34	-1664	3	7	9999	-14	-49	8	9631
755	APZZ38C3PA	5- -35	0	0	0	1 0000	0	0	0	1 0000
756	APZZ38C4PA	5- -36	0	0	0	1 0000	0	0	0	1 0000
757	APZZ38P3PA 5	5- -37	-659	9	7	9998	8	-78	3	9951
758	APZZ38P3PA2	5- 38	-480	10	14	9981	7	-102	12	9649
759	APZZ38P3PA4	5- -39	-396	8	8	9990	9	-102	2	9990
760	APZZ38RHPA	5- -40	11	13	5	9567	12	70	2	9980
761	APZZ38RDPA	5- -41	0	0	0	1 0000	0	0	0	1 0000
762	APZZ38RLPA	5- -42	-1155	8	5	9995	-1	-121	2	9996
763	APMZ39C315	5- -43	-635	4	11	9993	18	-59	5	9757
764	APMZ39C308	5- -44	-617	12	10	.9994	16	-62	4	9829
765	APMZ39C300	5- -45	-600	21	22	9974	7	-74	4	9906
766	APMZ39C293	5- -46	-744	56	44	9942	12	-110	3	9972
767	APMZ42C315	5- -47	-639	7	6	9998	20	-67	6	.9666
768	APMZ42C308	5- -48	-597	-14	11	9991	5	-81	3	9970
769	APMZ42C300(R)	5- -49	23	-10	44	4276	-19	56	68	1481
770	APMZ42C293	5- -50	-627	5	8	9996	8	-123	5	9960
771	B16P3MMRH	5- -51	82	10	11	9333	7	39	7	9485
772	B16P3MMRD	5- -52	125	12	19	9292	12	12	15	6018
773	B16P3MMRV	5- -53	10	-2	114	2502	-40	-1	54	3303
774	H23P17MFP(U)	5- -54	149	11	31	9333	32	-143	30	8766
775	H23 9P16MFP(HSU)	5- -55	478	13	6	9996	10	-57	5	9752
776	H23 9P16MFP(HSL)	5- -56	-536	11	7	.9996	3	-9	5	4669
777	B24P10 5MMRH	5- -57	-6	9	4	9674	6	19	3	9586
778	B24P10 5MMRD	5- -58	144	16	7	9914	15	16	4	9701
779	B24P10 5MMRV	5- -59	124	8	13	9694	3	15	8	7100
780	W36P2MZ(D)	5- -60	-4	11	3	9825	7	1	2	9278
781	APMM44C1PA	5-A- 1	0	0	0	1 0000	0	0	0	1 0000
782	APMM44C2PA	5-A- 2	-1050	19	14	.9996	-4	-250	22	9824
783	APMM44C3PA	5-A- 3	-1054	17	7	.9999	-1	-347	8	9988
784	APMM44C4PA	5-A- 4	-567	5	19	9976	-1	315	29	9804
785	APMM44C5PA	5-A- 5	-481	14	2	.9999	15	-191	4	9990
786	APMM44P3PA4	5-A- 6	-463	7	8	9993	-2	-234	10	9954
787	APMM44C1PF	5-A- 7	-431	8	4	.9998	3	-248	5	9992
788	APMM44C2PF	5-A- 8	-463	14	2	9999	17	-287	6	9988
789	APMM44C3PF	5-A- 9	-773	6	7	.9998	-23	-519	9	9994
790	APMM44C4PF	5-A-10	-630	16	4	9999	25	-609	8	9996
791	APMM44C5PF	5-A-11	1	9	4	9554	12	-255	5	9988
792	APMM44P1PFO 5	5-A-12	-468	13	3	9999	9	-277	6	9989
793	APMM44P3PFO 5	5-A-13	-505	16	4	9999	14	-299	5	9992
794	APMM44P5PFO 5	5-A-14	-654	11	2	9999	10	-394	3	9998
795	APMM44RLPF	5-A-15	-722	17	2	.9999	17	-482	4	9998
796	APMM44RDPF	5-A-16	-262	12	2	9999	11	-282	5	9993
797	APMM44RHPF	5-A-17	0	0	0	1.0000	-50	67	161	2106
798	APMM44P3PF2	5-A-18	-96	12	180	.2004	35	-269	18	9870
799	APMM44P3PF4	5-A-19	-461	8	22	.9951	8	-246	13	9934
800	M43 3P11 1P	5-A-20	-476	13	15	.9979	32	-238	22	9757
801	M43 3P11 5P	5-A-21	-426	17	16	.9972	19	-229	6	9981
802	M43 3P12 0P	5-A-22	-438	-3	32	.9870	24	-251	28	9679
803	M41 4P11 7P	5-A-23	-526	12	8	9995	9	-219	4	9993
804	APMZ46C292	5-A-24	-734	20	25	9977	13	-142	8	9905
805	APMZ46C285	5-A-25	0	0	0	1 0000	-13	-109	10	9857
806	APMZ46C277	5-A-26	-545	1	11	.9991	-2	-166	2	9996
807	APMZ48C270	5-A-27	-432	-6	11	9985	16	-204	6	9974
808	APZZ46C3PA	5-A-28	-1492	4	5	9999	-3	-183	3	9992
809	APZZ46C3PF	5-A-29	0	0	2	1284	0	0	1	2557
810	APZZ52C3SF	5-A-30	-696	10	8	9997	15	336	6	9993
811	ASZZ52C3SA	5-A-31	-1	0	1	.1538	0	0	1	1921
812	APMZ62C101	5-A-32	-471	7	17	.9971	6	-175	5	9981
813	APMZ62C094	5-A-33	-409	11	30	9889	3	-157	6	9969
814	APMZ62C086(R)	5-A-34	-1	10	40	2787	-4	-2	13	0748
815	APMZ62C078	5-A-35	0	0	0	1 0000	0	0	0	1 0000
816	APMZ62RLZA	5-A-36	0	0	0	1 0000	0	0	0	1 0000
817	APMZ62RDZA	5-A-37	35	19	34	4649	28	-47	24	5145
818	APMZ62RHZA	5-A-38	52	18	36	.4027	28	-40	18	5696
819	ASMM66C1SF	5-A-39	-729	18	6	9999	10	67	4	9934
820	ASMM66C2SF	5-A-40	-943	24	8	9999	10	163	4	9986
821	ASMM66C3SF	5-A-41	-968	16	7	9999	5	219	6	9982
822	ASMM66C4SF	5-A-42	-613	16	63	.9788	-21	159	33	8919
823	ASMM66C5SF	5-A-43	-569	22	5	.9999	22	154	6	9977
824	M59 5P 5P(AC)	5-A-44	-471	17	3	.9999	11	-11	4	7658
825	M59 5P 5P(FCO)	5-A-45	-267	13	2	9999	6	-9	2	7926

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
826	M59 9P SP(FCI)	5-A-46	-322	14	3	9999	3	-9	3	7101
827	M48S5W(BMSU)	5-A-47	60	19	30	.5327	7	88	37	7571
828	B56P8MMS(BM)	5-A-48	-44	12	15	9143	7	31	7	9327
829	M48S5W(BMSL)	5-A-49	0	0	0	1.0000	0	0	0	1 0000
830	B56P8M2S(BM)	5-A-50	-106	9	41	8177	8	-115	24	9007
831	B40S9MMP(C)	5-A-51	586	17	5	9998	19	57	5	9905
832	B64P8MMS(BM)	5-A-52	51	21	11	8838	31	5	10	8936
833	H23 9S19S	5-A-53	125	15	10	9781	3	-30	7	8755
834	B24S9 SMMRV(C)	5-A-54	-82	17	6	9939	9	-34	3	9742
835	B24S9 SMMRD(C)	5-A-55	-89	15	6	9949	6	-28	5	889C
836	B24S5 SMMRH(C)	5-A-56	12	11	6	8945	8	-35	4	9668
837	H23 9S16P(HSU)	5-A-57	351	11	4	9997	9	80	7	9857
838	H23 9S16P(HSL)	5-A-58	-613	17	9	9996	14	30	7	9373
839	H23P17MFP(L)	5-A-59	-134	12	3	9990	9	-97	3	9980
840	W44P2M2(D)	5-A-60	-1	12	6	.9536	4	4	4	7153
841	M23 9S4 SP(HSO)	5-B- 1	-122	14	5	.9981	10	-111	4	9961
842	M23 9S4 SP(HSI)	5-B- 2	6	12	27	4761	-22	145	31	8818
843	H24 1P8 SP(HSL)	5-B- 3	494	-2	102	9135	3	66	47	5343
844	H24 1P8 SP(HSU)	5-B- 4	-515	5	7	.9996	7	-167	3	9994
845	H24 1P13 9P(C)	5-B 5	19	16	4	9710	15	36	4	9857
846	H29 3P17 8RH	5-B- 6	36	6	6	.8995	4	40	6	9605
847	H29 3P17 8RD	5-B- 7	-875	5	4	.9999	5	-92	3	9978
848	H29 3P17 8RL	5-B- 8	-161	19	4	9990	18	-183	5	9981
849	H31 9P14S(C)	5-B- 9	-47	11	4	9936	-21	-121	8	9933
850	B32P8F(RH(C)	5-B-10	56	16	5	9697	22	22	6	9643
851	B32P8F(RD(C)	5-B-11	-60	13	3	9982	9	-16	3	8458
852	B32P8F(RV(C)	5-B-12	-158	11	5	9986	7	4	4	7577
853	M31 8P11W	5-B-13	-255	8	6	9988	8	-74	4	9919
854	M31 8P10 SP	5-B-14	-301	20	2	9983	10	-149	3	9992
855	H37P20P	5-B-15	-251	17	3	9997	15	-225	4	9991
856	H37S20P(CU)	5-B-16	-221	12	3	9997	5	215	6	9983
857	H37S20P(CL)	5-B-17	-179	20	8	.9969	27	205	9	9964
858	H37S19P(C)	5-B-18	-190	17	3	9996	21	216	9	9967
859	H37 4S20P(C)	5-B-19	-221	15	8	9975	7	227	7	9979
860	B40S8 SMFRV(BB)	5-B-20	38	13	8	8588	10	27	11	8484
861	B40S8 SMFRD(BB)	5-B-21	-124	13	8	.9935	22	76	11	9686
862	B40S8 SMFRH(BB)	5-B-22	-198	17	11	9951	20	44	8	9621
863	H44S20P(LP)	5-B-23	-178	11	10	.9945	-8	273	12	9955
864	H45 4S21P(C)	5-B-24	-387	13	4	.9998	4	308	3	9998
865	H45 4S21P(C)	5-B-25	-388	15	5	9997	8	301	6	9991
866	H41P20P(C)	5-B-26	12	5	6	6467	-7	84	8	9764
867	H47 9P9P(C)	5-B-27	476	12	5	.9997	14	-192	8	9953
868	B48P8 2MMRV(BB)	5-B-28	-72	8	14	9479	3	-5	8	1614
869	B48P8 2MMRD(BB)	5-B-29	-1	0	3	2175	0	0	0	1 0000
870	B48P8 2MMRH(BB)	5-B-30	52	20	10	8997	21	-45	7	8941
871	H42 6P20F(C)	5-B-31	0	-1	2	.1457	0	0	0	3681
872	B48P12MMP(CI)	5-B-32	63	4	11	9139	1	13	7	6702
873	B48P12MMP(CO)	5-B-33	82	4	19	8754	6	23	2	9887
874	B48CD1P(C)	5-B-34	47	4	16	7485	-6	-3	7	5132
875	I55 9P2P(C)	5-B-35	0	0	0	1 0000	0	0	C	1 000C
876	H48 5P10P(CO)	5-B-36	0	0	0	1 0000	0	0	0	1 0000
877	H51P14P(CU)	5-B-37	149	13	3	9982	7	-287	4	9996
878	H51P14P(CL)	5-B-38	366	12	4	9997	10	-244	3	9997
879	H48P19P(C)	5-B-39	-221	15	4	9996	15	-306	3	9997
880	H51P18P(C)	5-B-40	-190	18	4	9993	11	-273	3	9997
881	M56P8W(BMSUO)	5-B-41	-165	21	41	9259	63	-61	37	5484
882	M56P8W(BMSLO)	5-B-42	-80	-5	39	6245	-61	-80	34	8898
883	M56P8W(BMSUO)	5-B-43	-158	46	19	9892	85	-98	30	7665
884	M56P8W(BMSLO)	5-B-44	0	0	0	1 0000	0	0	0	1 000C
885	RESISTOR	5-B-45	-2	-3	4	6499	-8	4	5	4923
886	M40S3W(BMSU)	5-B-46	-308	12	36	9743	10	-48	5	9706
887	B56P8MMP(BM)	5-B-47	-99	17	45	8217	22	-133	21	9270
888	M48S5W(BMSU)	5-B-48	0	0	0	1 0000	0	0	0	1 0000
889	B56P8M2P(BM)	5-B-49	-50	4	23	7594	-6	-53	12	9127
890	M31 8P10W	5-B-50	-327	15	21	9924	12	-159	2	9995
891	H16S12P(CU)	5-B-51	-60	15	5	9945	10	56	3	9938
892	H16S12P(CM)	5-B-52	-60	19	5	9948	20	54	7	9796
893	H16S12P(CL)	5-B-53	-98	10	23	9239	16	51	10	9539
894	H14S12P(C)	5-B-54	6	14	3	9862	9	-13	4	7487
895	H1? 6S8S(C)	5-B-55	69	16	6	9938	8	33	3	9908
896	H12P14P(C)	5-B-56	33	15	3	9963	11	-19	3	8719
897	H 2P14P(C)	5-B 57	-3	15	4	9842	7	-18	3	9298
898	B16P8P(C)	5-B-58	138	16	4	9964	17	-3	6	8398
899	H23S20P(C)	5-B-59	-157	12	3	9994	6	102	1	9997
900	RESISTOR	5-B-60	0	0	4	2568	-4	3	3	5125

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
901	B64COZZP	4- - 1	-51	17	20	.9131	13	-9	3	8389
902	B64COZZS	4- - 2	-74	7	11	9698	9	-10	1	9317
903	B64P4ZZP	4- - 3	0	0	0	1 0000	7	-38	4	9681
904	B64P4ZZS	4- - 4	-219	8	18	.9867	5	-52	3	9906
905	B64P8ZZP	4- - 5	-107	8	11	.9831	8	-52	4	.9794
906	B64P8ZZS	4- - 6	-121	7	22	9458	2	-39	9	8799
907	B64COMZP	4- - 7	-120	8	25	9333	12	-21	3	9070
908	B64COMZS	4- - 8	-42	9	4	9930	5	8	3	9189
909	B64P4MZP	4- - 9	-112	10	21	9496	5	-33	4	.9647
910	B64P4MZS	4- -10	-146	4	21	9584	5	-50	5	9752
911	B64P8MZP	4- -11	-12	9	21	6311	6	-31	5	9344
912	B64P8MZS	4- -12	-140	7	6	9964	6	-62	4	9877
913	B64COMFP	4- -13	-27	7	13	.8369	4	-6	2	7032
914	B64COMFS	4- -14	-65	13	20	9125	14	-8	5	7567
915	B64P2MFP	4- -15	-149	24	116	.6256	8	-10	2	9106
916	B64P2MFS	4- -16	0	0	2	1842	0	0	.	2136
917	B64COFIP	4- -17	-68	7	10	.9696	9	-6	.	9437
918	B64COFIS	4- -18	-59	8	5	9889	6	-2	3	6058
919	B64P6FIP	4- -19	38	6	13	.6794	8	-15	6	6098
920	B64P6FIS	4- -20	10	4	10	3456	4	-41	3	9874
921	B64S4ZZP	4- -21	-98	6	16	9541	11	5	3	9338
922	B64S4ZZS	4- -22	-115	9	5	.9968	11	28	3	.9860
923	B64S8ZZP	4- -23	-125	10	9	9910	15	43	5	.9841
924	B64S8ZZS	4- -24	-64	8	16	9249	4	16	7	8089
925	B64S4MZP	4- -25	-92	45	91	7312	7	10	5	8716
926	B64S4MZS	4- -26	-190	6	23	9723	7	20	3	9678
927	B64S8MZP	4- -27	-83	73	300	.3531	12	24	4	9693
928	B64S8MZS	4- -28	-122	64	211	5202	12	39	4	9887
929	B64S4MFP	4- -29	-88	66	218	4679	8	9	2	9619
930	B64S4MFS	4- -30	-80	14	23	.9179	8	12	3	9629
931	B64S6FIP	4- -31	-50	43	122	5232	4	9	3	.9166
932	B64S6FIS	4- -32	-20	113	379	.3482	10	25	3	9850
933	B64CDHHRH	4- -33	17	12	5	.9361	9	-5	3	8275
934	B64CDHHRD	4- -34	-3	11	6	.9500	6	8	2	9375
935	B64CDHHRV	4- -35	21	9	7	.7874	7	5	3	8972
936	B64P7IIRV	4- -36	50	6	14	7845	10	-27	4	9227
937	B64P7IIRD	4- -37	23	5	6	.8000	2	-2	6	2053
938	B64P7IIRH	4- -38	140	-1	14	9779	4	29	3	9823
939	B64P11FIRV	4- -39	-435	10	11	.9988	4	91	2	.9990
940	B64P11FIRD	4- -40	84	4	12	9432	7	-32	2	9805
941	B64P11FIRH	4- -41	-168	-35	37	.8250	-11	-45	14	8693
942	B64P13FFRV	4- -42	-23	2	11	.7588	3	97	4	9963
943	B64P13FFRD	4- -43	-272	8	46	9453	1	116	16	9598
944	C64P13FFRH	4- -44	19	13	6	9229	0	-3	8	1892
945	B64S7IIRH	4- -45	78	7	9	.9524	2	8	4	.7627
946	B64S7IIRD	4- -46	77	16	13	8781	0	9	6	5269
947	B64S7IIRV	4- -47	-1	11	9	8784	13	-14	7	6023
948	B64S11FIRH	4- -48	65	10	4	.9868	4	111	14	9662
949	B64S11FIRD	4- -49	-424	12	16	.9972	2	-52	5	9788
950	B64S11FIRV	4- -50	-34	12	10	.9463	-3	-62	7	9747
951	B64S13IIRH	4- -51	0	0	0	1 0000	0	0	0	1 0000
952	B64S13IIRD	4- -52	-210	25	46	9384	-1	-11	12	3841
953	B64S13IIRV	4- -53	-14	9	13	8117	-5	-5	4	7534
954	H61.2520P(CU)	4- -54	-443	13	8	9993	4	330	4	9997
955	MS9S8P(C)	4- -55	-406	13	9	9990	3	202	2	9997
956	APMZ46C112	4- -56	-418	-10	17	.9960	-9	-83	3	9967
957	APMZ46C105	4- -57	-381	-17	15	.9954	-1	-106	8	9860
958	APMZ46C97	4- -58	-516	4	31	.9921	10	-145	16	9704
959	APMZ46C90	4- -59	-127	-32	27	8281	9	-116	4	9964
960	H60P19(D)	4- -60	-2	11	6	.9367	12	-1	2	9547
961	M61P14P(G)	4-A- 1	0	0	0	1 0000	0	0	0	1 0000
962	M61P11.1P	4-A- 2	-449	9	5	9998	5	-268	2	.9999
963	M61P10W	4-A- 3	-408	17	3	.9999	7	-220	3	9996
964	M61P6W	4-A- 4	-394	12	6	.9996	9	-127	2	9992
965	M61P2W	4-A- 5	-387	15	3	.9999	8	-35	2	9881
966	M61COW	4-A- 6	0	0	0	1.0000	0	0	0	1 0000
967	M61S2W	4-A- 7	-372	13	3	9999	6	29	3	9858
968	M61S4W	4-A- 8	-310	11	4	.9997	7	63	3	9961
969	M61S6W	4-A- 9	-422	15	3	9999	-18	127	12	9738
970	M61S8W	4-A-10	-358	11	4	.9997	1	150	3	9993
971	M61S9.5P	4-A-11	-372	13	5	9996	8	185	2	9996
972	M61S10W	4-A-12	-366	15	4	9998	5	205	3	.9994
973	M61S10.5P	4-A-13	-282	15	96	.8340	-11	217	6	9962
974	M61S11.1P	4-A-14	-394	-57	73	.8790	-1	267	8	9978
975	M61S12W	4-A-15	-420	13	5	.9997	7	268	7	9986

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
976	M61S12 5P	4-A-16	-1	0	2	2301	0	0	0	1149
977	M61S13W	4-A-17	-451	3	12	9984	-2	283	11	9967
978	M61S14P	4-A-18	-441	10	20	9958	3	286	11	9968
979	Z61C0W	4-A-19	-846	12	9	9398	5	5	1	9614
980	Z61S2W	4-A-20	-445	11	3	9999	2	23	2	9895
981	Z61S4W	4-A-21	-523	10	4	9999	8	59	2	9983
982	Z61S6W	4-A-22	-1057	11	15	9995	2	177	3	9994
983	Z61S8W	4-A-23	-862	13	7	9999	9	182	5	9581
984	Z61S9W	4-A-24	-895	9	8	9998	1	210	3	9995
985	Z61S10W	4-A-25	-1245	31	34	9985	6	292	3	9997
986	Z61S10 5P	4-A-26	-1569	5	77	9946	4	353	3	9998
987	Z61S10 9P	4-A-27	-1450	-16	65	9952	-9	345	3	9996
988	Z61P6W	4-A-28	-1198	15	41	9975	-7	120	8	9866
989	Z61P10W	4-A-29	-1270	38	35	9984	3	82	5	9918
990	W61SZM3 9P	4-A-30	-1564	24	49	9978	3	361	3	9998
991	W61SM20 1P	4-A-31	-1027	3	40	9965	-9	309	3	9996
992	H56 1S21P	4-A-32	-1074	6	48	9954	10	357	8	9968
993	H61S3W	4-A-33	675	10	4	9999	3	60	7	9735
994	H61P5W	4-A-34	666	6	4	9999	2	-70	4	9903
995	H61S5W	4-A-35	605	3	9	9995	1	104	4	9970
996	H61S7W	4-A-36	519	7	2	9999	6	147	2	9997
997	H61P7W	4-A-37	139	1	2	9993	1	42	3	9886
998	H61S9W	4-A-38	-195	3	4	9989	0	309	2	9997
999	H61S11W	4-A-39	436	5	3	9999	2	-224	2	9998
1000	H61P11W	4-A-40	515	7	5	9998	0	-150	2	9995
1001	H61S13W	4-A-41	352	0	16	9953	3	255	6	9986
1002	H61S14W	4-A-42	284	7	4	9995	2	281	2	9995
1003	H61P14W	4-A-43	269	7	7	9982	20	-272	4	9994
1004	H61S15W	4-A-44	149	11	3	9985	4	292	2	9998
1005	H61S16 5P	4-A-45	-21	12	4	9887	6	272	4	9995
1006	H61P16 5P	4-A-46	0	0	0	1 0000	9	-267	5	9993
1007	H61S18W	4-A-47	32	297	491	6509	563	-856	407	5436
1008	H61S20WL	4-A-48	371	11	2	9999	13	316	7	9989
1009	H61P20WL	4-A-49	398	11	3	9999	6	-327	3	9998
1010	H57 9P9S(C)	4-A-50	150	15	18	9529	6	-120	8	9893
1011	B56P8;1P(C)	4-A-51	101	14	14	9272	11	-34	8	8365
1012	ASMZ76C098	4-A-52	481	51	37	9912	6	126	13	9794
1013	ASMZ76C105	4-A-53	595	60	39	9935	-3	114	4	9972
1014	ASMZ76C112	4-A-54	683	58	70	9863	2	93	2	9991
1015	ASMM66C5SA	4-A-55	860	5	5	9999	-2	488	8	9994
1016	ASMM66C4SA	4-A-56	-771	8	5	9999	3	517	6	9996
1017	ASMM66C3SA	4-A-57	768	15	6	9999	8	464	4	9998
1018	ASMM66C1SA	4-A-58	525	88	1120	1990	18	-376	673	0265
1019	ASMM66C1SA	4-A-59	-524	11	5	9998	8	290	2	9995
1020	WFBSLMZ(D)	4-A-60	0	9	4	9664	10	1	4	7927
1021	B72C0HHRH	4-B-1	-55	9	10	9594	6	4	3	8430
1022	B72C0HHRD	4-B-2	-61	11	6	9884	6	9	2	9683
1023	B72C0HHRV	4-B-3	-105	11	3	9987	9	5	2	9712
1024	B72P12 SFIRV	4-B-4	140	7	3	9989	9	-92	8	9803
1025	B72P12 SFIRD	4-B-5	147	14	5	9981	2	43	3	9888
1026	B72P12 SFIRH	4-B-6	92	8	5	9895	3	-24	3	9668
1027	B72S12 SFIRH	4-B-7	106	9	8	9799	3	91	7	9854
1028	B72S12 SFIRD	4-B-8	-236	10	6	9986	10	107	6	9905
1029	B72S12 SFIRV	4-B-9	33	11	3	9931	-25	-43	6	9848
1030	Z62 5C0W	4-B-10	-686	7	7	9997	0	2	1	2966
1031	Z65C0W	4-B-11	-623	8	7	9997	7	2	1	9611
1032	Z67C0W	4-B-12	-627	10	4	9999	4	-2	2	7342
1033	Z69C0W	4-B-13	-653	6	9	9995	8	1	2	9374
1034	Z71C0W	4-B-14	-601	14	6	9998	8	0	2	9038
1035	Z63S6W	4-B-15	-714	11	4	9999	6	124	2	9997
1036	Z63S11W	4-B-16	1	0	2	2598	-1	0	1	4192
1037	M63C0W	4-B-17	0	0	0	1 0000	-5	2	5	3722
1038	M63S11 1P	4-B-18	-461	24	12	9987	8	257	2	9998
1039	M63S14P	4-B-19	-504	14	4	9998	2	321	3	9998
1040	M65C0W	4-B-20	-414	10	6	9995	0	5	4	4582
1041	M65S11 1P	4-B-21	-451	5	11	9987	8	268	3	9998
1042	M65S14P	4-B-22	-557	0	20	9971	-7	333	6	9992
1043	M65P14P	4-B-23	-509	14	4	9998	18	-316	5	9995
1044	M65P11 1P	4-B-24	-464	3	8	9994	4	-272	2	9999
1045	M67C0W	4-B-25	0	0	0	1 0000	0	0	0	1 0000
1046	M67S11 1P	4-B-26	-430	6	7	9995	4	250	2	9999
1047	M67S14P	4-B-27	762	-140	249	6967	3	282	8	9981
1048	M69C0W	4-B-28	0	0	0	1 0000	0	0	0	1 0000
1049	M69S11 1P	4-B-29	-438	5	53	9692	25	243	5	9991
1050	M69S14P	4-B-30	-335	61	79	9438	-10	273	4	9994

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
1051	M69P11.1P	4-B-31	-462	0	31	9897	-2	11	3	8087
1052	M69P14P	4-B-32	0	0	0	1 0000	0	0	0	1 0000
1053	M71COW	4-B-33	-382	15	3	9999	1	-1	2	0777
1054	M71S10.1P	4-B-34	-382	10	4	9998	2	233	2	9999
1055	M71S13P	4-B-35	-507	11	3	9999	95	351	25	9928
1056	M63S8.5P	4-B-36	-377	13	4	9998	3	141	3	9993
1057	I69COP	4-B-37	86	1	5	9933	-1	-5	6	3201
1058	I65COP	4-B-38	-5	0	4	5103	0	0	3	2546
1059	F65CONA	4-B-39	0	0	0	1 0000	0	0	0	1 0000
1060	H63COP	4-B-40	426	6	6	9995	-3	-1	3	6423
1061	H65COP	4-B-41	682	24	97	9693	148	150	63	9149
1062	H65S13W	4-B-42	325	5	4	9996	1	233	2	9998
1063	H67COP	4-B-43	0	0	0	1 0000	0	0	0	1 0000
1064	H69P13W	4-B-44	315	8	4	9997	2	-226	3	9996
1085	H69COP	4-B-45	0	0	0	1.0000	0	0	0	1 0000
1066	H69S13W	4-B-46	345	8	3	9997	0	0	0	1 0000
1067	H71COP	4-B-47	608	15	4	9999	12	-7	4	7414
1068	I61COP	4-B-48	425	9	5	9997	12	3	8	6862
1069	F61CONA	4-B-49	-14	10	3	9925	4	2	4	5524
1070	B64S8.5MMRV	4-B-50	-42	7	7	9715	5	23	8	8413
1071	B64S8.5MMRD	4-B-51	-119	13	7	9955	5	22	5	9200
1072	B64S8.5MMRH	4-B-52	-318	-26	157	5989	248	-5	255	4431
1073	H65S20P(CU)	4-B-53	-311	9	7	9990	-2	345	5	9996
1074	H65S20P(ACL)	4-B-54	-291	11	3	9998	2	320	3	9999
1075	H65S20P(FCL)	4-B-55	-268	8	4	9995	0	289	2	9999
1076	ASM276C090	4-B-56	-357	-6	10	9980	4	133	2	9996
1077	ASM262C65	4-B-57	-602	34	15	9988	9	-186	2	9996
1078	ASM262C60	4-B-58	499	131	413	2859	260	-246	651	1937
1079	ASM262C55	4-B-59	-428	-16	20	9940	8	-144	2	9995
1080	H68S19P(D)	4-B-60	3	13	5	9692	13	0	2	9610
1081	B80C022P	3- -1	-130	12	4	9988	8	1	2	9038
1082	B80C022S	3- -2	273	4	3	9997	·	0	1	5907
1083	B80P322P	3- -3	-93	5	4	9568	1	0	2	4215
1084	B80P322S	3- -4	174	8	3	9990	0	-6	1	8919
1085	B80P822P	3- -5	-50	2	4	9886	1	-11	3	8716
1086	B80P822S	3- -6	84	3	2	9977	1	-20	1	9968
1087	B80C0M2P	3- -7	-25	2	16	6326	-16	-7	8	8252
1088	B80C0M2S	3- -8	38	12	6	8927	10	-7	3	8306
1089	B80P3M2P	3- -9	-40	9	2	9969	8	-9	3	7899
1090	B80P3M2S	3- -10	94	6	3	9977	4	-2	2	6667
1091	B80P8M2P	3- -11	19	4	2	9395	1	1	3	1485
1092	B80P8M2S	3- -12	33	5	4	9358	-3	0	5	1599
1093	B80C0MFP	3- -13	0	0	0	1 0000	0	0	0	1 0000
1094	B80C0MFS	3- -14	-1	15	4	9872	25	-17	40	0418
1095	B80P9MFP	3- -15	41	3	9	8622	-3	11	4	6735
1096	B80P9MFS	3- -16	-21	-10	13	5930	-176	-68	136	6649
1097	B80C0FIP	3- -17	59	7	1	9977	4	0	1	9384
1098	B80C0FIS	3- -18	-141	9	3	9993	-1	-3	3	3708
1099	B80P6FIP	3- -19	45	6	2	9896	7	2	2	9095
1100	B80P6FIS	3- -20	38	12	2	9890	8	-13	2	8802
1101	B80S422P	3- -21	-111	9	3	9991	6	5	2	9753
1102	B80S422S	3- -22	243	2	3	9997	0	-3	2	6231
1103	B80S822P	3- -23	-73	9	5	9948	6	13	1	9854
1104	B80S822S	3- -24	159	-5	19	9736	16	-17	7	6602
1105	B80S4M2P	3- -25	-30	6	2	9960	2	-2	3	0869
1106	B80S4M2S	3- -26	40	4	2	9925	0	13	2	9731
1107	B80S8M2P	3- -27	12	2	4	6794	3	0	2	6772
1108	B80S8M2S	3- -28	50	3	2	9955	-2	-3	11	1776
1109	B80S7MFP	3- -29	6	2	1	8994	0	-1	2	1252
1110	B80S7MFS	3- -30	-17	10	5	9766	9	17	4	9572
1111	B80S6FIP	3- -31	34	0	7	9061	11	-14	9	4658
1112	B80S6FIS	3- -32	48	1	27	5949	3	9	14	2763
1113	B80C0HHRH	3- -33	-3	6	10	6729	3	-41	34	4259
1114	B80C0HHRD	3- -34	-118	4	2	9992	1	8	1	9530
1115	B80C0HHRV	3- -35	-64	5	3	9963	-5	-1	4	5427
1116	B80P711RV	3- -36	18	4	2	9573	1	0	2	3836
1117	B80P711RD	3- -37	-9	10	3	9861	4	11	4	8634
1118	B80P711RH	3- -38	-72	3	7	9845	2	19	4	9254
1119	B80P11FIRV	3- -39	28	3	5	8746	4	7	5	6861
1120	B80P11FIRD	3- -40	9	17	4	9851	17	-35	10	7376
1121	B80P11FIRH	3- -41	-14	1	4	8795	-1	-49	2	9953
1122	B80P12FFRV	3- -42	0	0	0	1 0000	0	0	0	1 0000
1123	B80P12FFRD	3- -43	16	2	1	9769	-1	27	1	9928
1124	B80P12FFRH	3- -44	-17	10	3	9885	10	-8	4	6919
1125	B80S711RH	3- -45	-94	8	3	9988	4	-10	2	8808

TABLE B.1 (Continued)

			VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
GAGE NUMBER	GAGE NAME	POSITION	SENSITIVITY 100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY 100% DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1126	B8OS711IRD	3- -46	0	0	0	1 0000	0	0	0	1 0000
1127	B8OS711IRV	3- -47	41	10	6	9801	-8	29	12	6425
1128	B8OS11FIRH	3- 48	-5	-2	10	0689	1	5	3	5885
1129	B8OS11FIRD	3- -49	72	5	3	9966	1	-43	1	9975
1130	B8OS11FIRV	3- -50	-23	13	6	9771	8	-49	2	9525
1131	B8OS12FFRH	3- -51	-15	5	7	8855	2	13	1	9801
1132	B8OS12FFRD	3- -52	-3	1	4	0072	0	1	1	1564
1133	B8OS12FFRV	3- 53	-25	7	5	9756	7	-28	2	9857
1134	H84 SS2IP(CU)	3- -54	-284	0	6	9591	0	179	2	9958
1135	H101P20P(UC)	3- -55	-61	13	6	9911	8	-22	2	9656
1136	H100P20P(AC)	3- -56	-52	7	9	9616	1	-27	2	9915
1137	B98COMMP(C)	3- -57	56	15	6	9456	7	8	3	9128
1138	M101 3COW(C)	3- -58	-123	16	6	9965	9	0	3	8920
1139	M101 3COW(C	3- -59	-2	6	4	9296	1	-1	1	2944
1140	B80CMF(C)	3- -60	1	7	4	9284	4	0	1	9434
1141	M73P13P	3-A- 1	354	15	4	9998	6	63	2	9981
1142	M73P12W	3-A- 2	-450	4	4	9999	-2	-263	2	9995
1143	M73P10 1P	3-A- 3	-391	7	5	9996	-7	-202	2	9995
1144	M73P8W	3-A- 4	383	6	5	9996	-24	-104	5	9867
1145	M73P6W	3-A- 5	-374	3	6	9985	-11	109	6	9549
1146	M73P2W	3-A- 6	-384	8	4	9998	-1	-9	1	5467
1147	M73C0W	3-A- 7	-397	10	4	9998	2	0	2	5633
1148	M73S2W	3-A- 8	-347	11	4	9998	4	26	2	9890
1149	M73S4W	3-A- 9	-463	9	4	9998	7	-276	2	9997
1150	M73S6W	3-A-10	-346	9	3	9998	2	98	2	9989
1151	M73S8W	3-A-11	-360	3	3	9999	-14	111	4	9956
1152	M73S9W	3-A-12	-381	7	3	9998	0	134	1	9997
1153	M73S9 5P	3-A-13	0	0	0	1 0000	0	0	0	1 0000
1154	M73S10 1P	3-A-14	-377	12	8	9991	4	201	2	9955
1155	M73S11W	3-A-15	-433	5	7	9995	-4	246	3	9997
1156	M73S11 5P	3-A-16	-389	2	4	9998	0	236	2	9998
1157	M73S12P	3-A-17	-430	9	2	9999	2	273	3	9997
1158	M73S12 5P	3-A-18	-467	12	5	9997	4	287	2	9998
1159	M73S13P	3-A-19	-486	9	4	9998	3	295	2	9999
1160	Z73C0W	3-A-20	-587	11	6	9998	8	1	3	8245
1161	Z73S2W	3-A-21	-622	10	5	9999	6	43	2	9956
1162	Z73S4W	3-A-22	-555	3	3	9999	-2	64	3	9947
1163	Z73S6W	3-A-23	-743	3	32	9958	3	115	3	9982
1164	Z73S8W	3-A-24	-777	7	16	9990	1	179	2	9994
1165	Z73S9W	3-A-25	-744	5	4	9999	-26	189	10	9919
1166	Z73S9 5P	3-A-26	-716	13	34	9952	-6	206	5	9983
1167	Z73S10W	3-A-27	-902	-2	9	9997	1	218	4	9994
1168	Z73S11F	3-A-28	-868	-33	88	9730	0	325	387	2861
1169	Z73P6W	3-A-29	734	3	14	9992	0	-118	4	9977
1170	Z73P10W	3-A-30	-704	2	12	9994	11	-162	5	9975
1171	W73SM20 1P	3-A-31	-430	5	2	9999	3	194	7	9972
1172	W73SM22 0W	3-A-32	-361	-3	16	9951	-3	169	18	9731
1173	W73SZM3 9P	3-A-33	-790	1	5	9999	4	217	5	9988
1174	H78S20P(C)	3-A-34	-244	3	4	9995	0	213	3	9995
1175	H73S1W	3-A-35	528	-1	4	9999	-2	16	5	7759
1176	H73S3W	3-A-36	486	2	5	9997	-9	44	9	8822
1177	H73P3W	3-A-37	572	11	5	9998	6	-25	3	9488
1178	H73S5W	3-A-38	432	4	3	9999	-7	72	5	9887
1179	H73S7W	3-A-39	433	4	4	9998	1	117	3	9969
1180	H73P7W	3-A-40	356	11	3	9998	8	-136	3	9983
1181	H73S9W	3-A-41	275	4	3	9998	3	144	1	9999
1182	H73S11W	3-A-42	0	0	0	1 0000	0	0	0	1 0000
1183	H73P11W	3-A-43	333	2	3	9998	-1	-179	2	9998
1184	H73S12W	3-A-44	355	13	5	9994	7	201	3	9995
1185	H73S13W	3-A-45	334	8	5	9994	-5	220	5	9988
1186	H73P13W	3-A-46	342	2	6	9993	-1	-228	4	9994
1187	H73S14W	3-A-47	238	9	3	9995	7	226	2	9998
1188	H73S15W	3-A-48	118	4	4	9966	-2	241	2	9998
1189	H73P15W	3-A-49	112	-5	8	9904	-6	-243	5	9992
1190	H73S16 5P	3-A-50	-39	7	9	9508	6	258	3	9997
1191	H73P16 5P	3-A-51	-36	3	12	8653	2	-237	3	9996
1192	H73S18W	3-A-52	3	2	4	3982	0	0	0	1 0000
1193	H73S20W	3-A-53	-393	12	5	9997	7	280	1	9999
1194	H73P20W	3-A-54	-391	2	8	9990	-4	-274	3	9997
1195	H79 SS18P(AC)	3-A-55	59	10	4	9763	7	-51	2	9944
1196	I98 1COP(C)	3-A-56	-120	7	8	9927	0	6	4	5257
1197	B98S6MMP(C)	3-A-57	262	11	8	9974	6	-21	2	96[illegible]9
1198	H17S17W(C)	3-A-58	-40	40	21	9594	7	26	2	9933
1199	RESISTOR	3-A-59	4	10	18	5442	-5	-4	4	6797
1200	H76S19(D)	3-A-60	0	15	6	9675	-12	2	6	7047

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
1201	Z75COW	3-B- 1	-533	12	4	.9999	8	1	2	9213
1202	Z77COW	3-B- 2	-512	4	4	9998	2	0	1	5577
1203	Z79COW	3-B- 3	-420	5	4	.9998	1	3	2	7582
1204	Z79 5COW	3-B- 4	0	0	0	1 0000	0	0	0	1 0000
1205	Z83COW	3-B- 5	-363	1	6	.9994	-10	14	4	7918
1206	Z85COW	3-B- 6	-240	4	5	.9990	-2	6	2	8151
1207	W83PZM3 9P	3-B- 7	-346	9	4	9997	4	-111	1	9956
1208	Z83P6W	3-B- 8	-396	8	3	9999	3	-62	2	9984
1209	RESISTOR	3-B- 9	-1	0	2	4465	0	0	0	1 0000
1210	Z83S6W	3-B-10	-338	9	4	9997	5	65	2	9960
1211	Z79 5S6W	3-B-11	-475	9	3	9995	-2	77	3	9975
1212	Z79 5S9 9P	3-B-12	-537	6	5	9998	-5	148	2	9994
1213	W83SMZO 1P	3-B-13	0	0	0	1 0000	0	0	0	1 0000
1214	W83SMZ2 OW	3-B-14	-199	11	3	9996	6	94	2	9989
1215	W83SZM3 9P	3-B-15	0	0	0	1 0000	0	0	0	1 0000
1216	M75COW	3-B-16	-311	6	4	9997	2	130	2	9997
1217	M75S10 1P	3-B-17	-411	14	10	9989	0	205	2	9998
1218	M75S13P	3-B-18	-410	11	4	9998	5	277	2	9999
1219	M77COW	3-B-19	-411	10	2	9999	4	1	2	8536
1220	M77S10 1P	3-B-20	-469	3	5	9998	11	192	3	9995
1221	M77S13P	3-B-21	-335	11	3	9998	2	244	3	9996
1222	B80P61JW(C)	3-B-22	-34	3	3	9879	-5	2	4	5284
1223	M77P13P	3-B-23	0	0	0	1 0000	0	0	0	1 0000
1224	M79COW	3-B-24	-359	8	3	9999	-1	-3	2	6805
1225	M79S10 1P	3-B-25	-316	6	3	9999	2	147	3	9992
1226	M79S13P	3-B-26	-249	4	3	9997	-10	175	5	9976
1227	M85COW	3-B-27	-284	6	2	9995	2	0	2	3841
1228	M81S10 1P	3-B-28	-262	-1	5	9993	-4	151	3	9991
1229	M81S13P	3-B-29	-290	2	2	9999	3	161	2	9995
1230	M81P10 1P	3-B-30	-226	10	2	9999	6	-147	4	9984
1231	M81P13P	3-B-31	-325	5	3	9998	2	-154	5	9973
1232	M83COW	3-B-32	0	0	0	1 0000	0	0	0	1 0000
1233	M83S10 1P	3-B-33	-274	1	3	9998	-3	144	2	9994
1234	M83S13P	3-B-34	-346	3	2	9999	-2	195	1	9999
1235	M81COW	3-B-35	-348	8	3	9999	-1	0	1	1343
1236	M85S10 1P	3-B-36	-248	4	3	9997	0	103	2	9988
1237	M85S13P	3-B-37	-195	11	2	9998	6	133	3	9988
1238	M85P10 1P	3-B-38	-325	4	3	9998	0	-92	2	9993
1239	M85P13P	3-B-39	-209	3	3	9995	5	-124	2	9995
1240	F81 5S(4INS 1B)	3-B-40	12	9	2	9842	8	-56	3	9896
1241	M81S5 5P	3-B-41	-373	6	3	9999	1	38	1	9969
1242	M83S5 5P	3-B-42	0	0	0	1 0000	0	0	0	1 0000
1243	M83P10 1P	3-B-43	-287	3	3	9997	-3	-133	1	9997
1244	M83P13P	3-B-44	0	0	0	1 0000	0	0	0	1 0000
1245	I73COP	3-B-45	196	10	4	9988	5	2	2	8907
1246	I77COP	3-B-46	272	5	3	9997	0	-1	2	1136
1247	I81COP	3-B-47	256	12	3	9995	10	-4	3	8550
1248	F81CONA	3-B-48	-22	5	5	9483	-1	5	2	7564
1249	F85CONA	3-B-49	-57	3	6	9826	-13	4	3	9292
1250	B80P8MMRH	3-B-50	3	9	4	9355	7	-21	3	9160
1251	B80P8MMRD	3-B-51	-42	6	5	9828	-1	-20	1	9939
1252	B80P8MMRV	3-B-52	0	0	4	2534	1	-1	1	2361
1253	B80P9MFRH	3-B-53	-70	9	4	9956	5	-22	1	9850
1254	B80P9MFRD	3-B-54	-77	2	3	9963	-5	-22	2	9802
1255	B80P9MFRV	3-B-55	13	11	5	9320	3	-2	3	4655
1256	I85COP	3-B-56	319	2	7	9990	0	3	3	3756
1257	RESISTOR	3-B-57	1	0	1	3107	0	0	0	1 0000
1258	RESISTOR	3-B-58	5	2	4	4045	-5	2	5	3812
1259	RESISTOR	3-B-59	425	376	287	8228	829	-379	1285	1460
1260	H83P19(D)	3-B-60	-2	10	3	9759	1	4	2	7603
1261	B86COZZP	2- - 1	114	10	4	9961	6	-1	1	9338
1262	B86COZZS	2- - 2	-398	7	3	9999	3	8	2	9220
1263	B86P3ZZP	2- - 3	70	3	5	9850	0	7	1	9028
1264	B86P3ZZS	2- - 4	-267	2	3	9998	-3	-2	3	6356
1265	B86P8ZZP	2- - 5	68	19	3	.9889	14	-2	4	8848
1266	B86P8ZZS	2- - 6	-183	7	1	9999	3	3	3	7161
1267	B86COMZP	2- - 7	5	7	2	9686	1	2	2	5318
1268	B86COMZS	2- - 8	-78	4	5	9919	3	3	3	6440
1269	B86P3MZP	2- - 9	37	-2	20	5864	3	-2	11	2267
1270	B86P3MZS	2- -10	-5	5	5	8511	4	4	2	8758
1271	B86P8MZP	2- -11	6	5	2	.9183	-1	10	2	9183
1272	B86P8MZS	2- -12	22	6	2	9930	1	16	2	9561
1273	B86COMFP	2- -13	3	4	2	9098	2	5	3	7488
1274	B86COMFS	2- -14	-184	4	2	9996	0	6	2	8252
1275	B86P9MFP	2- -15	-24	5	7	9296	2	4	2	6926

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
1276	B86P9MFS	2 16	49	12	4	9930	7	36	3	9877
1277	B86COF P	2 17	-9	4	2	9906	0	3	1	8052
1278	B86COF S	2 18	-4	2	2	9378	-2	5	2	69[illegible]0
1279	B86P6FIP	2 19	27	6	4	9824	1	8	2	9418
1280	B86P6FIS	2 20	-43	5	2	9962	-2	-1	2	5442
1281	B86S4ZZP	2 21	34	9	2	9867	0	-1	2	[illegible]122
1282	B86S4ZZS	2 22	-200	12	2	9998	-7	22	6	7885
1283	B86S8ZZP	2 23	76	2	1	9590	0	-1	2	2298
1284	B86S8ZZS	2 24	-82	9	21	9757	-1	8	2	8648
1285	B86S4MZP	2 25	7	12	3	9850	8	1	2	9126
1286	B86S4MZS	2 26	-87	3	2	9986	0	5		875[illegible]
1287	B86S8MZP	2 27	14	0	2	9689	-4	-8	2	9287
1288	B86S8MZS	2 28	19	-2	5	7844	-5	-17	5	9038
1289	B86S2MFP	2 29	37	0	2	9944	-1	5	2	629[illegible]
1290	B86S2MFS	2 30	16	8	6	7569	3	8	2	9515
1291	B86S6F [illegible]	2 31	19	9	2	9922	8	-11	2	843[illegible]
1292	B86S6F S	2 32	-45	2	3	9892	2	1	3	4078
1293	B86COMHRH	2 33	15	6	2	9549	2	7	3	8523
1294	B86COMHRC	2 34	9	6	2	9895	-1	8	2	9014
1295	B86COMHRV	2 35	-7[illegible]	10	3	9976	4	0	2	7145
1296	B86P[illegible] RV	2 36	[illegible]	-1	1	8936	-2	1	1	6823
1297	B86P[illegible] R[illegible]	2 37	19	7	7	9154	2	26	3	9783
1298	B86P[illegible] R[illegible]	2 38	-57	8	1	9996	5	9	1	9778
1299	B86P [illegible] RV	2 39	-9	0	11	2417	12	23	8	9016
1300	B86P [illegible] RH	2 40	0	0	0	2401	0	0	0	0000
1301	B86P [illegible] RC	2 41	63	7	3	9966	7	2	2	9243
1302	B86P 2FFRV	2 42	15	10	2	9778	10	22	2	9874
1303	B86P 2FFRC	2 43	8[illegible]	10	3	9957	3	22	5	9085
1304	B86P 2FFRH	2 44	3[illegible]	0	3	9780	-2	6	4	4683
1305	B86S7[illegible] RH	2 45	-127	8	3	9993	7	-3	2	8295
1306	B86S7[illegible] RC	2 46	[illegible]	10	3	9988	8	6	3	9015
1307	B86S7[illegible] RV	2 47	-7	8	8	8760	11	-21	5	8319
1308	B86S [illegible]FIRH	2 48	-89	12	14	9700	-2	-22	16	5435
1309	B86S [illegible]FIRC	2 49	-37	5	1	9983	0	-7	1	9356
1310	B86S [illegible]FIRV	2 50	[illegible]	4	3	8629	3	-33	2	9925
1311	B86S 2FFRH	2 51	0	3	5	7153	0	-5	2	7880
1312	B86S 2FFRC	2 52	54	3	5	9725	0	-23	2	9759
1313	B86S 2FFRV	2 53	56	5	4	9818	-2	-34	-2	9922
1314	H86 SS2[illegible]P[illegible]CM	2 54	-236	0	5	9990	-1	173	3	9990
1315	[illegible] SS[illegible] P[illegible]	2 55	250	[illegible]	3	9978	-5	179	4	9988
1316	RES STCH	2 56	[illegible]	-5	4	8658	-13	2	4	8832
1317	RES STCR	2 57	7	-6	8	6695	-11	7	2	9218
1318	RES STCR	2 58	0	-9	6	9108	-7	3	3	7432
1319	RES STCP	2 59	3	-7	3	9569	-10	3	3	8516
1320	W[illegible]RPIMZ[illegible]	2 60	3	15	4	9777	13	-4	4	8186
1321	B92COZZP	2 A 1	[illegible]	9	17	9736	13	54	4	9919
1322	B92COZZS	2 A 2	403	7	5	9997	4	28	3	9847
1323	B92P4ZZP	2 A 3	49	7	7	9307	-3	19	4	8844
1324	B92P4ZZS	2 A 4	-205	1	12	9924	2	26	2	9829
1325	B92P8ZZP	2 A 5	197	27	41	8574	12	18	7	9053
1326	B92P8ZZS	2 A 6	59	11	22	6546	2	24	8	8271
1327	B92COMZP	2 A 7	24	7	16	3988	9	21	3	9696
1328	B92COMZS	2 A 8	-17	4	12	7344	1	14	3	9305
1329	B92P4MZP	2 A 9	33	9	5	8946	6	30	5	9550
1330	B92P4MZS	2 A 10	-26	7	18	7426	-14	10	12	3972
1331	B92P8MZP	2 A 11	-38	9	19	8217	1	55	3	9918
1332	B92P8MZS	2 A 12	-50	16	18	9231	8	22	6	9241
1333	B92COMFP	2 A 13	6	3	14	1249	4	11	5	8101
1334	B92COMFS	2 A 14	-168	4	3	9991	3	3	2	8314
1335	B92P8MFP	2 A 15	-100	9	7	9917	5	26	2	9847
1336	B92P8MFS	2 A 16	-145	14	6	9978	9	-19	9	5590
1337	B92COFIP	2 A 17	2	12	49	2090	198	-118	289	1507
1338	B92COFIS	2 A 18	11	-2	21	2121	5	6	9	4743
1339	B92P6FIP	2 A 19	-58	5	13	9226	16	6	9	7914
1340	B92P6FIS	2 A 20	-45	8	2	9969	7	0	2	8655
1341	B92S4ZZP	2 A 21	17	17	16	7590	16	-46	4	9698
1342	B92S4ZZS	2 A 22	-228	12	49	9235	-19	65	28	6270
1343	B92S8ZZP	2 A 23	112	9	23	8854	4	-29	4	9432
1344	B92S8ZZS	2 A 24	-80	9	20	9201	-53	5	17	8671
1345	B92S4MZP	2 A 25	3	17	8	9468	19	-13	13	5075
1346	B92S4MZS	2 A 26	57	3	11	8963	2	-44	4	9751
1347	B92S8MZP	2 A 27	-45	5	12	9083	1	-37	3	9874
1348	B92S8MZS	2 A 28	-86	-1	23	8623	-11	-12	8	8850
1349	B92S2MFP	2 A 29	1	2	6	2840	1	-1	2	1532
1350	B92S2MFS	2 A 30	-30	6	8	9274	6	6	2	9564

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL LOADING ONLY SENSITIVITY/100% DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1351	B92S6FIP	2-A-31	-68	11	6	9909	-1	-5	5	4267
1352	B92S6FIS	2-A-32	-49	8	4	9508	2	10	4	7810
1353	B92P 2HHRH	2-A-33	-58	6	6	9816	-4	28	15	5683
1354	B92P 2HHRD	2-A-34	-83	7	5	9952	-1	10	3	8539
1355	B92P 2HHRV	2-A-35	-9	11	3	9892	10	4	2	9544
1356	B92P7IIRV	2-A-36	0	-3	2	8651	-2	0	1	8083
1357	B92P7IIRD	2-A-37	-91	8	6	9930	-1	-14	4	8786
1358	B92P7IIRH	2-A-38	-86	8	4	9971	-2	2	3	1516
1359	B92P11FIRV	2-A-39	4	10	3	9714	3	19	3	9538
1360	B92P11FIRD	2-A-40	0	0	1	2312	0	0	1	1045
1361	B92P11FIRH	2-A-41	-65	9	5	9922	2	8	6	5541
1362	B92P11 9FFRV	2-A-42	22	9	4	9242	5	29	5	9429
1363	B92P11 9FFRD	2-A-43	49	12	3	9794	13	13	3	9665
1364	B92P11 9FFRH	2-A-44	17	3	3	8485	-4	40	7	9309
1365	B92S7IIRH	2-A-45	-67	12	3	9971	2	-2	4	0773
1366	B92S7IIRD	2-A-46	-20	10	8	9322	6	8	5	7920
1367	B92S7IIRV	2-A-47	-40	11	4	9928	9	-18	4	8395
1368	B92S11FIRH	2-A-48	-70	12	4	9959	7	-28	5	9131
1369	B92S11FIRD	2-A-49	-1	5	5	8083	3	11	6	7615
1370	B92S11FIRV	2-A-50	-187	-1	253	2237	2	-3	3	2012
1371	B92S11 9FFRH	2-A-51	14	4	5	6643	-11	-42	14	8586
1372	B92S11 9FFRD	2-A-52	34	1	5	9523	1	-32	4	9589
1373	B92S11 9FFRV	2-A-53	28	7	5	8875	1	-18	5	8584
1374	F91S11 9P(BB)	2-A-54	155	2	7	9945	1	-86	6	9894
1375	M87 5P10S(PST)	2-A-55	-264	1	11	.9959	0	-85	3	9970
1376	RESISTOR	2-A-56	19	-3	21	4639	-16	-4	6	8628
1377	RESISTOR	2-A-57	-239	-28	326	0890	0	0	0	1 0000
1378	RESISTOR	2-A-58	-4	-6	8	6544	-9	-2	6	7038
1379	RESISTOR	2-A-59	10	1	12	1491	0	0	0	1 0000
1380	M79 5CO(D)	2-A-60	-5	14	5	.9733	9	-5	4	7025
1381	M93 6P8W	2-B-1	-299	12	4	9997	7	-66	2	9973
1382	M93 6P8 5P	2-B-2	-298	9	3	9998	4	-65	2	9972
1383	M93 6P9W	2-B-3	-297	4	4	9996	6	-81	2	9987
1384	M93 6P9 5P	2-B-4	-215	-5	4	9992	-2	-49	2	.9963
1385	M93 6P10W	2-B-5	-303	18	3	.9998	17	-87	4	9929
1386	M93 6P11W	2-B-6	-259	7	1	.9999	5	-81	1	9994
1387	M92 8P8W	2-B-7	-89	10	5	9945	9	-85	3	9976
1388	M92 8P8 5RH	2-B-8	174	6	2	.9997	1	44	3	9915
1389	M92 8P8 5RD	2-B-9	18	10	2	9779	10	-127	3	9986
1390	M92 8P8 5RL	2-B-10	-399	12	2	9999	9	-78	2	9986
1391	M92 8P9W	2-B-11	-362	6	2	9999	5	-85	2	9990
1392	M92 8P9 5P	2-B-12	-232	2	5	.9990	6	-61	1	9987
1393	M92 8P10W	2-B-13	-312	5	3	.9998	6	-82	3	9968
1394	M92 8P11W	2-B-14	-201	6	2	9998	6	-91	1	9993
1395	M92 8P12W	2-B-15	-232	6	3	.9997	7	-89	1	9996
1396	M92 2P8W	2-B-16	-52	12	7	9827	13	-99	4	.9964
1397	H85 9P17P(LP)	2-B-17	2	10	4	.9544	5	-138	1	9997
1398	M92 2P8 5P	2-B-18	137	-5	27	9312	2	-141	4	.9984
1399	B92P7MMS(C)	2-B-19	-180	9	9	.9951	9	-20	3	9187
1400	M92 3P9S	2-B-20	-322	7	7	.9991	8	-96	3	9980
1401	M92 3P9 2RH	2-B-21	52	11	5	9644	14	49	3	.9945
1402	M92 3P9 2RD	2-B-22	106	18	9	.9681	7	-96	2	.9984
1403	M92 3P9 2RL	2-B-23	-398	3	2	9999	3	-80	3	.9976
1404	M92 3P9 5P	2-B-24	-510	8	23	.9956	-4	-97	3	9982
1405	M92 3P10S	2-B-25	-299	14	3	9999	13	-89	2	9978
1406	M92 3P11S	2-B-26	-219	5	2	9999	6	-103	2	9993
1407	M92 3P12S	2-B-27	-261	1	2	.9999	3	-72	3	9953
1408	M91 6P8S	2-B-28	-411	6	10	.9986	-1	-39	9	.8888
1409	M91 6P8 2P	2-B-29	-242	3	2	.9998	4	-86	2	.9967
1410	M91 6P8 5P	2-B-30	-273	6	4	9994	1	-72	6	9853
1411	M91 6P9W	2-B-31	-161	18	30	9546	13	-80	3	9959
1412	M91 6P9 5P	2-B-32	-226	9	3	.9997	10	-93	3	9974
1413	M91 6P9 7RL	2-B-33	-216	-1	11	.9936	27	-89	23	8066
1414	M91 6P9 7RH	2-B-34	455	-5	25	.9935	-48	-84	21	9472
1415	M91 6P9 7RD	2-B-35	66	10	2	.9945	6	52	3	9939
1416	M91 6P10W	2-B-36	-4	-4	2	.8700	-2	0	2	4851
1417	M91 6P11W	2-B-37	-259	2	10	9974	-7	-90	5	9948
1418	M91 6P12W	2-B-38	-269	6	6	.9990	6	-88	2	9984
1419	H86 1P19P(HSU)	2-B-39	681	9	3	9999	7	-56	3	.9941
1420	H86 1P19P(HSL)	2-B-40	0	0	2	.2242	0	0	0	1 0000
1421	B64S 1MMP(CUST)	2-B-41	5	9	13	6477	-6	-17	4	9208
1422	H71 9P15P(C)	2-B-42	263	4	5	.9992	4	-277	5	9992
1423	H71P9P(C)	2-B-43	312	-1	10	.9978	0	-152	4	9987
1424	B64P8 SMFRV(BB)	2-B-44	-63	-7	13	.8666	-5	-22	3	9742
1425	B64P8 SMFRD(BB)	2-B-45	-195	14	10	.9959	0	-34	3	9859

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
1426	B64P8 SMFRH(BB)	2-B-46	-94	14	16	.9662	5	10	9	5855
1427	M80S95(SU)	2-B-47	85	0	7	9843	6	98	2	9988
1428	M80S95(SL)	2-B-48	-84	21	11	9865	7	33	4	9808
1429	H75 SS18P(FC)	2-B-49	46	3	2	9922	1	-52	[illegible]	9989
1430	H79S20P(CU)	2-B-50	-166	4	4	9985	0	219	2	9998
1431	RESISTOR	2-B-51	8	-2	10	5508	-13	4	6	6642
1432	RESISTOR	2-B-52	-2	-1	1	4647	0	0	0	1 0000
1433	RESISTOR	2-B-53	-23	-13	26	3894	0	0	0	1 0000
1434	RESISTOR	2-B-54	22	12	25	3907	0	0	0	1 0000
1435	RESISTOR	2-B-55	3	-6	4	9285	-13	4	4	8210
1436	RESISTOR	2-B-56	[illegible]	-5	4	8402	-12	4	4	8513
1437	RESISTOR	2-B-57	2	-2	5	6254	-12	4	6	6571
1438	RESISTOR	2-B-58	0	-6	4	.9155	-8	4	4	6732
1439	RESISTOR	2-B-59	-14	-8	16	.3896	0	0	0	1 0000
1440	H89P19 [illegible]	2-B-60	2	17	6	9646	12	-1	3	8983
1441	Z87COW	1- -1	-183	8	6	9977	4	0	2	7833
1442	Z89COW	1- -2	-183	4	3	9994	0	14	2	9531
1443	Z91COW	1- -3	-55	13	4	9961	8	-2	2	8649
1444	W91 95MZO 1RL	1- -4	-23	13	5	9813	11	25	2	9902
1445	W91 95MZO 1RD	1- -5	-1024	0	23	9968	-1	87	3	9976
1446	W91 95MZO 1RV	1- -6	44	10	17	6302	7	-51	2	9947
1447	M87COW	1- -7	-330	6	17	9941	-45	12	32	5421
1448	M87S9 1P	1- -8	-298	0	12	9964	-1	97	8	9824
1449	M87S12	1- -9	-228	2	5	9990	-6	105	3	9975
1450	M89COW	1- -10	0	0	0	1 0000	0	0	0	1 0000
1451	M89S9 1P	1- -11	255	3	4	9995	0	96	2	9994
1452	M89S12	1- -12	0	0	0	1 0000	0	0	0	1 0000
1453	M89P9 1P	1- -13	-226	10	3	.9997	3	-102	3	9972
1454	M89P12	1- -14	0	0	0	1 0000	0	0	0	1 0000
1455	M91COW	1- -15	-224	-19	46	8790	-65	-18	41	7269
1456	M91S9 1P	1- -16	263	7	23	9847	2	67	7	9756
1457	M91S12	1- -17	-258	4	2	9999	4	104	1	9998
1458	M93COW	1- -18	0	0	0	1 0000	0	0	0	1 0000
1459	M93S12	1- -19	[illegible]	14	2	9999	9	91	3	9981
1460	M93P12	1- -20	0	0	0	1 0000	0	0	0	1 0000
1461	M97COW	1- -21	-159	4	2	.9996	1	1	2	1932
1462	M97S12	1- -22	-42	6	1	.9986	1	63	3	9955
1463	M97P12	1- -23	-67	10	3	.9968	9	-49	2	9961
1464	M99COW	1- -24	153	5	3	9992	0	0	2	2353
1465	M99S12	1- -25	-54	5	3	9938	-1	34	2	9919
1466	M[illegible]COW	1- -26	126	14	3	9994	15	-4	3	9395
1467	M10[illegible]S12	1- -27	[illegible]	1	4	.9978	-9	41	2	9890
1468	M10[illegible]P12	1- -28	0	0	0	1 0000	0	0	0	1 0000
1469	M103COW	1- -29	0	0	0	1 0000	-1	-1	2	3838
1470	M103[illegible]	1- -30	-116	8	5	.9968	5	36	5	9640
1471	M105COW	1- -31	-130	15	4	9985	7	-2	4	5674
1472	M105S[illegible]	1- -32	-150	13	4	9991	13	26	3	9881
1473	M105P[illegible]	1- -33	0	0	0	1 0000	0	0	0	1 0000
1474	M107S[illegible]	1- -34	-93	6	2	9991	3	32	1	9970
1475	M107COW	1- -35	-203	7	5	.9988	-1	-1	2	4514
1476	F89CONA	1- -36	-4	4	3	9250	1	-2	1	2303
1477	[illegible]89COP	1- -37	184	6	2	.9996	4	-2	2	6969
1478	F[illegible]CONA	1- -38	65	7	3	9916	2	0	2	4545
1479	[illegible]93COP	1- -39	0	0	0	1 0000	0	0	0	1 0000
1480	F97CONA	1- -40	5248	604	2777	.5373	5	-4	3	6203
1481	[illegible]97COP	1- -41	152	9	4	.9980	4	-1	2	7855
1482	F101CONA	1- -42	197	14	5	.9983	0	-2	2	0891
1483	[illegible]101COP	1- -43	31	6	15	5228	-10	2	12	3029
1484	F105CONA	1- -44	144	1	39	.8602	17	-20	8	6562
1485	[illegible]105COP	1- -45	-51	14	8	.9802	8	-6	3	7082
1486	ASMZ79C120	1- -46	-706	77	67	.9873	1	80	2	9988
1487	ASMZ79C112(RES)	1- -47	-452	27	32	9910	2	82	1	9993
1488	ASMZ87C315	1- -48	-1744	-4	9	9999	141	59	180	4548
1489	ASMZ87C30F	1- -49	-1848	-7	7	9999	-340	284	95	8192
1490	ASMZ87C30C	1- -50	-1654	0	7	9999	20	195	7	9977
1491	ASMZ87C293	1- -51	-1414	9	6	9999	7	183	3	9996
1492	ASMZ87RVMF	1- -52	-344	7	3	9999	2	98	1	9996
1493	ASMZ87RDMF	1- -53	225	10	3	.9995	91	139	15	9907
1494	ASMZ87RLMF	1- -54	163	14	5	.9971	4	-12	4	7092
1495	B9257MZP(BM)	1- -55	31	9	12	9036	7	-50	5	9690
1496	B9257MZS(BM)	1- -56	-63	6	16	.9808	-8	-11	10	6337
1497	RESISTOR	1- -57	6	3	5	5004	7	1	6	5014
1498	RESISTOR	1- -58	6	7	5	8497	1	2	4	1512
1499	RESISTOR	1- -59	0	0	0	1.0000	0	0	0	1 0000
1500	H92P1(D)	1- -60	2	11	2	.9850	13	-1	3	9210

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1501	B98COMMS	1-A- 1	-486	6	14	.9981	2	7	2	9091
1502	B98COMMP	1-A 2	243	3	11	9948	-2	4	3	3130
1503	B98P4MMP	1-A- 3	47	12	6	.9366	5	8	3	6777
1504	B98P4MMS	1-A- 4	0	0	0	1.0000	0	0	0	1 0000
1505	B98P9MMP	1-A- 5	-159	-1	9	9922	0	10	4	7103
1506	B98P9MMS	1-A- 6	-161	9	12	.9897	12	-24	7	7211
1507	B98COMFP	1-A- 7	91	10	17	.8881	2	-49	27	6127
1508	B98COMFS	1-A- 8	-62	6	32	7327	3	2	1	9180
1509	B98P5MFP	1-A- 9	39	2	21	6013	-10	15	5	6671
1510	B98P5MFS	1-A-10	125	9	24	8977	0	42	6	9564
1511	B98P6FIP	1-A-11	-19	6	15	7149	-3	28	4	9530
1512	B98COFIS	1-A-12	0	0	0	1 0000	0	0	0	1 0000
1513	B98COFIP	1-A-13	5	11	9	8321	3	8	1	9677
1514	B98P6FIS	1-A-14	-55	1	11	9241	-25	-3	10	8399
1515	B98S4MMP	1-A-15	82	6	12	9364	1	-4	3	4242
1516	B98S4MMS	1-A-16	-130	11	20	9634	-90	58	30	7812
1517	B98P8MMP	1-A-17	80	6	11	9461	3	24	5	9368
1518	B98S8MMS	1-A-18	-34	2	19	6832	4	-59	8	9594
1519	B98S3MFP	1-A-19	-9	15	10	9277	10	2	3	8860
1520	B98S4MFS	1-A-20	34	2	11	7682	0	7	6	4305
1521	B98S6FIP	1-A-21	-12	3	9	7183	-7	3	2	7492
1522	B98S6FIS	1-A-22	-2	6	32	1478	-7	20	2	9622
1523	B98P 2HHRH	1-A-23	-104	13	17	9667	4	6	4	7462
1524	B98P 2HHRD	1-A-24	82	7	15	9052	-17	3	4	9211
1525	B98P 2HHRV	1-A-25	-10	5	10	7438	-7	9	3	6570
1526	B98P711RD	1-A-26	-84	15	11	9808	14	32	5	9773
1527	B98P711RV	1-A-27	7	164	174	7970	-1	-10	3	8765
1528	B98P711RH	1-A-28	-142	16	6	9975	17	18	6	9337
1529	B98P11 5FIRV	1-A-29	41	-11	23	8142	2	-7	3	5830
1530	B98P11 5FIRD	1-A-30	241	10	16	9871	3	-32	5	9464
1531	B98P11 5FIRH	1-A-31	-175	15	19	9810	9	56	6	9790
1532	B98P11 9FFRV	1-A-32	14	12	11	7640	12	55	5	9867
1533	B98P11 9FFRD	1-A-33	248	12	11	.9947	5	13	4	8930
1534	B98P11 9FFRH	1-A-34	18	5	10	4847	2	50	10	9272
1535	B98S711RH	1-A-35	-37	7	4	.9974	-17	-3	5	9033
1536	B98S711RD	1-A-36	-50	5	14	.8938	3	40	6	9507
1537	B98S711RV	1-A-37	-16	5	15	6737	3	-32	3	9757
1538	B98S11 5FIRH*	1-A-38	-166	8	9	9940	-1	-64	8	9639
1539	B98S11 5FIRD	1-A-39	175	6	18	9719	-63	51	62	.3105
1540	B98S11 5FIRV	1-A-40	-194	-135	206	5446	0	0	0	1 0000
1541	B98S11 9FFRH	1-A-41	19	10	4	9139	12	-104	16	9403
1542	B98S11 9FFRD	1-A-42	258	12	7	.9981	7	24	4	9634
1543	B98S11 9FFRV	1-A-43	30	7	13	.5888	7	-29	2	9822
1544	B98S10MFS	1-A-44	123	6	37	8046	7	-139	12	9805
1545	B98S10MFP	1-A-45	64	14	14	.8251	12	73	12	9589
1546	H100P20P(FC)	1-A-46	-499	6	10	9991	4	430	6	.9996
1547	ASMM77C1SF	1-A-47	-1022	19	10	.9998	-4	-53	5	9834
1548	ASMM77C2SF	1-A-48	-35	3	10	.8852	5	-20	5	8293
1549	ASMM77C3SF	1-A-49	-264	18	15	9943	-3	206	8	9966
1550	ASMM77C4SF	1-A-50	-250	12	21	9867	17	316	112	8037
1551	ASMM77C5SF	1-A-51	-587	17	8	.9996	6	99	3	9978
1552	ASMM77C1SA	1-A-52	-350	9	6	9993	36	262	3	9998
1553	ASMM77C2SA	1-A-53	-351	11	9	.9986	9	267	3	9998
1554	ASMM77C3SA	1-A-54	-84	-2	21	8734	-27	9	25	4155
1555	ASMM77C4SA	1-A-55	-495	10	13	9986	-4	513	9	9993
1556	ASMM77C5SA	1-A-56	-312	-38	129	.6386	-6	364	6	9993
1557	ASMM77P3SA0 5	1-A-57	-931	21	21	9990	3	100	3	9981
1558	ASMM77P3SA1 5	1-A-58	-613	19	28	.9958	4	91	3	9969
1559	ASMM77P3SA3 0	1-A-59	0	0	0	1.0000	0	0	0	1.0000
1560	H103S19(D)	1-A-60	-277	21	11	9975	2	149	2	9997
1561	B108P9MFP	1-B- 1	-18	9	2	9953	-4	13	2	9317
1562	B108COMMS	1-B- 2	24	3	5	.8485	-3	5	2	.6047
1563	B108P4MMP	1-B- 3	-59	13	3	.9978	-3	10	7	4069
1564	B108P4MMS	1-B- 4	0	0	0	1.0000	0	0	0	1 0000
1565	B108P8MMP	1-B- 5	-37	9	4	.9887	-13	9	4	7607
1566	B108P8MMS	1-B- 6	-39	8	4	.9914	10	7	3	9569
1567	RESISTOR	1-B- 7	-2	2	12	1309	16	51	26	7653
1568	B108COMFS	1-B- 8	-58	-3	12	8980	-2	8	3	6519
1569	B108P4MFP	1-B- 9	-57	6	4	9922	-8	20	4	8683
1570	B108P4MFS	1-B-10	83	12	3	9957	6	18	2	9880
1571	RESISTOR	1-B-11	0	-5	5	.8216	-17	5	6	7885
1572	B108COFIS	1-B-12	0	0	0	1 0000	0	0	0	1 0000
1573	B108P6FIP	1-B-13	-22	12	2	9960	-3	12	4	7269
1574	B108P6FIS	1-B-14	6	7	2	9781	1	-6	2	8358
1575	B108S4MMP	1-B-15	-65	10	3	.9981	-2	-1	2	5326

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100% VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100% DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100% DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100% LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
1576	B108S4MMS	1-B-16	-52	12	2	9982	9	7	2	9763
1577	B108S8MMP	1-B-17	-40	9	1	9988	0	-[illegible]	[illegible]	7936
1578	B108S8MMS	1-B-18	-27	-6	3	9395	0	5	2	7084
1579	B108S4MFP	1-B-19	-52	19	3	9982	7	11	2	9797
1580	B108S4MFS	1-B-20	88	4	4	9940	-1	9	2	8335
1581	B108S6FIP	1-B-21	-31	6	1	9981	0	-3	2	6476
1582	B108S6FIS	1-B-22	34	0	4	9680	-6	-2	8	4465
1583	B108P 2HHRH	1-B-23	-531	13	4	9995	6	-25	2	9769
1584	B108P 2HHRD	1-B-24	-595	11	21	9573	2	6	2	9753
1585	B108P 2HHRV	1-B-25	0	0	0	1 0000	0	0	0	1 0000
1586	B108P711RV	1-B-26	64	15	2	9343	12	2	2	9667
1587	B108P711RD	1-B-27	11	3	3	7993	10	-35	3	9904
1588	B108P711RH	1-B-28	-302	14	4	.9997	19	-3	4	9383
1589	B108P10 5FIRV	1-B-29	160	5	3	9993	0	3	3	42[illegible]1
1590	B108P10 5FIRD	1-B-30	349	7	3	9998	3	-23	1	9942
1591	B108P10 5FIRH	1-B-31	-75	12	4	9974	1	-7	5	4559
1592	B108P10 9FFRV	1-B-32	-15	12	2	9943	0	33	3	9856
1593	B108P10 9FFRD	1-B-33	265	15	3	9996	3	14	3	9387
1594	B108P10 9FFRH	1-B-34	18	7	2	9690	-4	-12	3	9423
1595	B108S711RH	1-B-35	-256	7	3	9998	1	-30	2	9918
1596	B108S711RD	1-B-36	33	7	2	9744	232	19	60	9180
1597	B108S711RV	1-B-37	56	7	2	9950	1	1	1	6231
1598	B108S10 5FIRH	1-B-38	-212	9	3	9996	-2	-25	2	9845
1599	B108S10 5FIRD	1-B-39	201	11	2	9998	-1	69	2	9978
1600	B108S10 5FIRV	1-B-40	293	1	25	9826	-241	197	107	6597
1601	B108S10 9FFRH	1-B-41	-18	10	3	9898	3	-84	4	9935
1602	B108S10 9FFRD	1-B-42	65	9	6	9751	4	-156	6	9958
1603	B108S10 9FFRV	1-B-43	12	0	2	9375	40	-126	14	9546
1604	B108P9MFS	1-B-44	-71	7	2	9993	2	4	1	9307
1605	APMM77C1PA	1-B-45	-427	12	4	9998	3	-469	3	9999
1606	APMM77C2PA	1-B-46	-549	7	2	9999	-1	-507	2	9999
1607	APMM77C3PA	1-B-47	-520	5	2	.9999	-2	-415	2	9999
1608	APMM77C4PA	1-B-48	-1001	8	4	9999	-4	-78	14	9346
1609	APMM77C5PA	1-B-49	-293	7	4	9996	6	-179	4	9984
1610	APMM77P3PA0 5	1-B-50	-360	8	2	9999	15	-237	6	9982
1611	APMM77P3PA1 5	1-B-51	-311	13	4	.9997	7	-225	3	9997
1612	APMM77P3PA3 0	1-B-52	-308	8	3	9998	1	-165	1	9998
1613	APMM77C1PF	1-B-53	-560	12	4	9999	4	-86	2	9981
1614	APMM77C2PF	1-B-54	-584	11	6	.9998	2	-76	4	9948
1615	APMM77C3PF	1-B-55	872	13	5	.9999	-4	-79	3	9962
1616	APMM77C4PF	1-B-56	-368	2	5	9996	-8	-266	7	9986
1617	APMM77C5PF	1-B-57	-939	-21	24	9983	5	51	3	9950
1618	ASM279C135	1-B-58	-881	39	46	9949	6	24	3	9715
1619	ASM279C127	1-B-59	0	0	0	1 0000	0	0	0	1 0000
1620	H108CFFID1	1-B-60	0	13	2	9955	8	2	2	9198
1621	M95P10W	0- -1	-150	12	2	9998	11	-53	2	9946
1622	M95P7W	0- -2	-253	14	2	.9998	12	-26	2	9726
1623	M95P2W	0- -3	-176	14	2	9998	14	-4	2	9594
1624	M95C0W	0- -4	0	0	0	1.0000	0	0	0	1 0000
1625	M95S2W	0- -5	-181	14	4	9992	15	8	3	9664
1626	M95S4W	0- -6	-162	14	3	9994	15	13	3	9796
1627	M95S6W	0- -7	-211	13	8	.9974	11	37	6	9652
1628	M95S8W	0- -8	-267	14	2	9999	14	35	2	9955
1629	M95S10W	0- -9	9	6	5	7712	7	27	4	9756
1630	M95S10 SP	0- -10	-31	9	6	9735	9	38	3	9919
1631	M95S11W	0- -11	-32	19	9	.9735	2	34	4	9709
1632	M95S11 SP	0- -12	-61	15	9	9801	0	34	4	9636
1633	M95S12W	0- -13	-23	8	5	9667	9	42	3	9930
1634	B92P9 SP(BB)	0- -14	29	3	14	5757	12	7	4	9110
1635	H95S1W	0- -15	167	15	3	9990	12	3	3	9398
1636	H95S4W	0- -16	157	10	6	9957	11	11	4	9458
1637	H95P4W	0- -17	145	14	2	9991	11	-24	2	9677
1638	H95S5W	0- -18	137	12	3	9984	10	21	2	9940
1639	H95S7W	0- -19	141	12	2	9990	12	29	2	9955
1640	H95P7W	0- -20	137	12	1	9996	12	-32	2	9800
1641	H95S9W	0- -21	104	12	2	9983	11	34	2	9971
1642	H95S11W	0- -22	0	0	0	1 0000	0	0	0	1 0000
1643	H95P11W	0- -23	81	9	3	.9946	12	-46	2	9920
1644	H95S12W	0- -24	85	11	2	9967	10	48	2	9977
1645	H95S13W	0- -25	78	11	3	9949	9	47	2	9978
1646	H95P13W	0- -26	0	0	0	1 0000	0	0	0	1 0000
1647	H95S15W	0- -27	6	16	3	.9901	9	56	2	9986
1648	H95S16 SP	0- -28	-56	16	4	.9969	11	61	3	9968
1649	H95P16 SP	0- -29	35	12	2	9974	7	-62	2	9958
1650	H95S17W	0- -30	-57	11	2	.9980	10	60	2	9986

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100%. VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100%. DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1651	H95S17W	O- -31	-112	13	3	.9991	5	63	2	9974
1652	H95S19W	O- -32	-121	13	4	9986	10	-61	2	9979
1653	M80S9S(BMSU)	O- -33	-151	8	5	.9980	-50	66	52	3401
1654	B92SMM7(BMSL)	O- -34	-585	2	7	.9996	9	-77	3	9941
1655	H49COP	O- -35	0	0	0	1.0000	0	0	0	1.0000
1656	H61COP	O- -36	0	0	0	1.0000	0	0	0	1.0000
1657	H73COP	O- -37	0	0	0	1.0000	0	0	0	1.0000
1658	H75COP	O- -38	600	7	18	9979	17	-36	26	3523
1659	H77COP	O- -39	0	0	0	1.0000	0	0	0	1.0000
1660	H79COP	O- -40	504	14	5	9998	14	-10	4	8403
1661	H81COP	O- -41	456	9	2	9999	5	-7	3	5849
1662	H83COP	O- -42	0	0	0	1.0000	0	0	0	1.0000
1663	H85COP	O- -43	406	8	8	9990	8	-6	13	0970
1664	H87COP	O- -44	335	10	3	9998	6	1	3	7860
1665	H91COP	O- -45	306	10	26	9805	8	-5	4	5993
1666	H93COP	O- -46	229	13	3	9993	8	-10	7	4104
1667	H95COP	O- -47	604	30	351	5565	14	-4	4	8281
1668	H97COP	O- -48	0	0	0	1.0000	0	0	0	1.0000
1669	H99COP	O- -49	48	12	4	9705	6	-2	3	7127
1670	H101COP	O- -50	69	9	8	9452	9	-19	11	4323
1671	H103COP	O- -51	0	0	0	1.0000	0	0	0	1.0000
1672	H105COP	O- -52	55	11	4	9769	9	1	1	9722
1673	H107COP	O- -53	-22	6	8	8966	7	4	2	9449
1674	H89COP	O- -54	0	0	0	1.0000	0	0	0	1.0000
1675	H86SFF(C)	O- -55	-13	9	3	9896	8	196	2	9997
1676	B80PMMRH	O- -56	13	12	2	9934	9	-5	2	8986
1677	B80PMMRD	O- -57	55	12	3	9845	6	58	2	9978
1678	B80PMMRV	O- -58	-263	8	4	9995	9	46	2	9955
1679	B80P19@18(FC)	O- -59	-210	8	2	9998	7	-207	2	9998
1680	H96S19(D)	O- -60	-4	17	4	9881	17	-2	3	9472
1681	B92P7MMS	O-A- 1	-256	15	15	9940	5	6	2	9491
1682	B92P7MMP	O-A- 2	-86	7	10	9765	11	55	2	9973
1683	B92S8MMS	O-A- 3	-313	18	26	9873	7	-84	5	9917
1684	B92S8MMP	O-A- 4	0	0	0	1.0000	0	0	0	1.0000
1685	B86COMMP	O-A- 5	-157	11	3	9996	10	6	3	9313
1686	B86COMMS	O-A- 6	172	10	4	9983	4	7	3	9105
1687	B86P7MMP	O-A- 7	-126	5	4	9978	0	1	4	2097
1688	B86P7MMS	O-A- 8	93	13	3	9968	8	-6	2	8245
1689	B80P1MMS	O-A- 9	-63	-3	7	9627	-3	19	3	9137
1690	B80P1MMP	O-A-10	19	9	6	8103	8	13	2	9726
1691	F82P11M	O-A-11	-107	14	12	9833	1	-55	5	9839
1692	H80P17(LF)	O-A-12	-95	13	12	9789	-5	-89	4	9963
1693	B86P20(C)	O-A-13	14	5	6	6478	5	33	5	9652
1694	B86P11MMRH	O-A-14	22	2	13	4754	10	17	4	9440
1695	B86P11MMRD	O-A-15	31	9	4	9425	8	32	3	9900
1696	B86P11MMRV	O-A-16	-2	6	4	9367	8	22	3	9823
1697	B86P11MP(HSU)	O-A-17	28	11	14	.5763	6	31	3	9890
1698	B86P11MP(HSL)	O-A-18	-20	10	3	9930	4	22	3	9647
1699	F86P11P(C)	O-A-19	-28	10	2	9956	0	-9	2	8919
1700	B80P11F(P(BB)	O-A-20	91	10	2	9984	7	22	2	9919
1701	H80P15@14P(LF)	O-A-21	140	8	2	9994	5	-216	2	9998
1702	B86P9W(C)	O-A-22	0	0	0	1.0000	0	0	0	1.0000
1703	B86P8 SP(BB)	O-A-23	-6	10	2	9882	7	-2	2	8984
1704	I80P2P(C)	O-A-24	-48	11	3	9950	7	22	2	9934
1705	B86S7MMP(C)	O-A-25	-15	9	3	9846	4	-15	4	8300
1706	H85.9S19P(C)	O-A-26	0	0	0	1.0000	0	0	0	1.0000
1707	B80S9.5MFRH	O-A-27	-22	8	7	.9530	1	19	8	7392
1708	B80S9 5MFRD	O-A-28	-23	11	5	.9817	6	11	5	8577
1709	B80S9 5MFRV	O-A-29	52	9	2	.9909	6	-11	2	9006
1710	B92SMM7(BMSU)	O-A-30	72	8	3	.9924	6	46	2	9956
1711	M80S9S(SL)	O-A-31	0	0	0	1.0000	0	0	0	1.0000
1712	H85.9S6.SP(HSU)	O-A-32	-80	9	2	.9988	5	145	2	9997
1713	H85 9S6.SP(HSL)	O-A-33	400	3	5	.9996	3	-37	3	9856
1714	M86S3S(SU)	O-A-34	0	0	0	1.0000	0	0	0	1.0000
1715	M86S3S(SL)	O-A-35	-98	-46	14	.9528	-56	25	15	8626
1716	M86 1S3.SP(HSI)	O-A-36	-61	6	2	.9983	3	110	2	9994
1717	M86.1S3.SP(HSO)	O-A-37	-187	12	6	9985	2	-85	5	9919
1718	B86S11.9MMRH	O-A-38	23	6	5	8313	9	-8	7	4258
1719	B86S11 9MMRD	O-A-39	83	-47	69	.8173	12	-31	9	7486
1720	B86S11.9MMRV	O-A-40	70	12	3	.9920	8	-8	3	7850
1721	H86.1S17.SP(HSU)	O-A-41	702	8	3	9999	2	58	3	9955
1722	H86.1S17.SP(HSL)	O-A-42	-749	10	7	9998	6	72	5	9897
1723	H86 1S6 SP(HSU)	O-A-43	366	9	3	9998	3	-52	2	9953
1724	H86.1S6.SP(HSL)	O-A-44	-235	10	4	.9994	7	116	3	9969
1725	H88 5S19P(CU)	O-A-45	-176	9	3	.9994	4	126	3	9990

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY: SENSITIVITY/100%. VERTICAL	VERTICAL LOADING ONLY: SENSITIVITY/100%. DRIFT	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: SENSITIVITY/100%. DRIFT	LATERAL LOADING ONLY: SENSITIVITY/100%. LATERAL	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT
1726	M88 5S19P(CL)	O-A-46	-102	4	10	9824	0	123	9	9887
1727	M86 1S6S(U)	O-A-47	-242	11	4	9994	0	52	2	9948
1728	M86 1S6S(L)	O-A-48	-299	9	7	9988	-4	75	7	9774
1729	H86 1P8 5P(HSU)	O-A-49	322	10	3	9998	2	64	4	9932
1730	H86 1P8 5P(HSL)	O-A-50	-220	9	3	.9997	-29	-138	13	9851
1731	B92S7M2S(BM)	O-A-51	-148	13	15	.9837	4	-36	5	9528
1732	B92S7M2P(BM)	O-A-52	10	11	6	9199	3	-11	3	7991
1733	B86S3MMP(BM)	O-A-53	-71	9	3	9978	-2	5	2	[illegible]
1734	B86S3MMS(BM)	O-A-54	99	13	5	9681	-2	2	5	1647
1735	B86S3M2P(BM)	O-A-55	2	10	2	9905	4	4	2	8799
1736	B86S3M2S(BM)	O-A-56	-76	12	2	9992	4	2	2	8521
1737	B80S9MMS(BM)	O-A-57	-39	13	2	9985	9	-10	3	8268
1738	B80S9MMP(BM)	O-A-58	154	9	11	9847	-3	44	4	9750
1739	B80S9M2S(BM)	O-A-59	-72	94	124	7874	4	-8	2	7979
1740	W89P2M2(D)	O-A-60	59	13	4	.9803	0	-1	9	2511
1741	H78S20P(CU)	O-B- 1	-222	11	3	9995	1	213	2	9999
1742	H79S20P(CL)	O-B- 2	-214	10	3	9995	5	218	2	9998
1743	B80S11MMP(C)	O-B- 3	-48	12	3	9973	9	5	2	9548
1744	M80S11P(C)	O-B- 4	0	0	0	1 0000	0	0	0	1 0000
1745	H79 5S20P(FC)	O-B- 5	-153	12	3	9991	14	-62	4	9886
1746	H79 5S20P(AC)	O-B- 6	-80	11	2	9989	11	-51	2	9926
1747	H79 5S20P(ACL)	O-B- 7	-58	7	3	9955	4	-59	4	9897
1748	B64COMMP(C)	O-B- 8	-23	12	11	9145	13	-7	3	9045
1749	B56S8 5MFRV(BB)	O-B- 9	-6	-2	17	2257	3	-10	5	6095
1750	B56S8 5MFRD(BB)	O-B-10	-43	6	9	9499	4	14	5	8671
1751	B56S8 5MFRH (BB)	O-B-11	-32	14	15	9079	-5	-21	5	9383
1752	B56P8 5MFRV(BB)	O-B-12	-29	12	23	7654	-2	-51	5	9766
1753	B56P8 5MFRD(BB)	O-B-13	-49	3	11	9121	3	-58	5	9845
1754	B56P8 5MFRH(BB)	O-B-14	-27	3	11	7694	8	-30	5	9199
1755	M64P8S(SUA)	O-B-15	84	2	27	8043	6	-66	5	9837
1756	M64P8S(SLA)	O-B-16	-67	7	4	9952	8	-28	3	9582
1757	M64P8S(SUF)	O-B-17	-25	10	15	8434	-1	-28	3	9731
1758	M64P8S(SLF)	O-B-18	-149	16	13	9892	6	-12	3	7919
1759	B64P11F1P(CU)	O-B-19	53	7	11	8651	9	9	5	.8423
1760	B64P11F1P(CL)	O-B-20	134	11	6	9924	10	-5	2	8990
1761	M61 2S20P(CM)	O-B-21	-446	12	5	9997	-2	335	4	9997
1762	H61 2S20P(CL)	O-B-22	0	0	0	1 0000	0	0	0	1 0000
1763	M60P9 5P(C)	O-B-23	-357	16	3	9998	8	-152	2	9997
1764	H58 6P20P(C)	O-B-24	-263	14	5	.9993	7	-337	2	9999
1765	H61 3P20P(C	O-B-25	-267	10	3	9998	7	-319	2	9999
1766	H58 6P20P(CU)	O-B-26	0	0	0	1 0000	0	0	0	1 0000
1767	H58 6P20P(CL)	O-B-27	-368	54	53	9755	4	-312	2	9999
1768	M59 5P6P(C)	O-B-28	-33	13	4	9935	9	2	4	8636
1769	B80S9M2P(BM)	O-B-29	25	9	3	9636	4	-5	1	7822
1770	B64P8MMP(BM)	O-B-30	41	210	67	9742	1	-41	8	9243
1771	M74S5P(C)	O-B-31	-362	15	4	.9998	7	103	6	9932
1772	M73S5P(C)	O-B-32	-386	11	4	9998	6	102	2	9992
1773	M67S5P(C)	O-B-33	-512	11	4	.9999	3	123	1	9998
1774	M67P5P(UC)	O-B-34	-407	7	6	9995	-5	-103	2	9993
1775	M67 2P5P(UC)	O-B-35	-432	15	4	9998	3	-109	2	9994
1776	M69P5P(LP)	O-B-36	71	7	6	9718	2	44	2	9963
1777	M60P6P(C)	O-B-37	-452	17	5	9998	5	-140	2	9996
1778	H94S20P(FC)	O-B-38	-7	12	4	9825	9	-22	3	9457
1779	M77P10 1P	O-B-39	-502	11	4	9999	7	-180	2	9998
1780	H94S20P(AC)	O-B-40	42	13	3	9714	9	-21	3	9376
1781	H94S16 5P(CU)	O-B-41	3	9	2	9858	-2	-6	2	8239
1782	H94S16 5P(CL)	O-B-42	-35	13	3	9942	8	-17	3	8719
1783	H91P19P(C)	O-B-43	-5	13	4	9851	6	21	2	9896
1784	M79S8 5P	O-B-44	-211	14	3	9996	10	172	2	9997
1785	B86P911P	O-B-45	-83	13	3	9979	7	0	3	8537
1786	H91P19P(AC)	O-B-46	53	12	3	9875	7	35	2	9923
1787	H91P19P(FC)	O-B-47	8	14	6	9457	8	-31	2	9868
1788	H97 9P14P(LF)	O-B-48	32	14	4	.9591	3	35	5	9635
1789	H101P20P(AC)	O-B-49	-88	13	4	9969	4	-19	3	9382
1790	H80P19@18(FC)	O-B-50	-242	10	2	9998	5	-209	2	9998
1791	H79 5P18P(CU)	O-B-51	-58	10	3	9966	6	-212	2	9998
1792	H79 5P18P(CL)	O-B-52	-72	11	2	.9991	8	-216	2	9998
1793	M63 9P13S(C)	O-B-53	-374	10	8	9990	3	-75	4	9914
1794	H79 9P15P(C)	O-B-54	28	12	3	.9734	8	-200	2	9996
1795	B64P12 9P(LP)	O-B-55	-110	12	6	9959	-1	-99	12	9688
1796	B64P12 9P(SC)	O-B-56	72	9	4	9903	2	18	4	9317
1797	H65P22P(C)	O-B-57	68	0	7	9778	-11	38	7	9032
1798	B64P 1MMP(C)	O-B-58	-70	144	82	9426	6	-4	5	4321
1799	B64S 1MMP(C)	O-B-59	8	4	14	5423	7	-27	2	9863
1800	B108P1MMP(D)	O-B-60	-1	19	3	9943	10	-4	3	8876

TABLE B.2 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH COMBINED VERTICAL AND LATERAL LOADING

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100%. VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100%. VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1	B8COMMP	9- - 1	68	12	6	.9832	65	-9	6	.9820
2	B8P4MMP	9- - 2	21	29	14	.8494	46	21	14	8116
3	B8P7MMP	9- - 3	1	8	35	.1982	57	27	63	.3704
4	B8COMFP	9- - 4	0	0	0	1.0000	0	0	0	1 0000
5	B8P2MFP	9- - 5	-79	43	9	.9674	-77	51	6	9933
6	B8S4MFP	9- - 6	48	-24	44	.3830	122	22	78	.5191
7	B8S7MMP	9- - 7	2	-10	6	.6839	0	-16	7	7933
8	B8S2MFP	9- - 8	-63	-44	7	9873	-73	-38	9	9610
9	B8COHHRH	9- - 9	0	0	0	1.0000	0	0	0	1 0000
10	B8COHHRD	9- -10	-384	-35	20	.9939	-380	55	26	9906
11	B8COHHRV	9- -11	44	-15	10	.8692	36	0	11	.8316
12	B8P111RV	9- -12	0	0	1	.3765	0	0	0	1 0000
13	B8P111RD	9- -13	228	-91	16	.9870	219	-55	18	9876
14	B8P111RH	9- -14	-36	0	8	.8839	-43	-10	12	8394
15	B8P5FFRV	9- -15	70	183	5	.9992	86	193	9	9968
16	B8P5FFRD	9- -16	137	81	6	.9978	143	93	11	.9878
17	B8P5FFRH	9- -17	-155	-92	5	.9986	-158	-91	8	9944
18	B8S111RH	9- -18	-86	3	6	.9896	-89	-23	8	9796
19	B8S111RD	9- -19	0	0	0	1.0000	0	0	0	1 0000
20	B8S111RV	9- -20	38	1	12	.8142	42	42	10	9295
21	B8S5FFRH	9- -21	-142	84	9	.9905	-132	119	17	9885
22	B8S5FFRD	9- -22	164	-135	25	.9613	217	-150	55	9425
23	B8S5FFRV	9- -23	4	-322	9	.9990	-26	-332	9	.9990
24	B8COMMS	9- -24	-280	-15	6	.9989	-291	13	9	9976
25	B8P4MMS	9- -25	0	0	0	1.0000	0	0	0	1.0000
26	B8P7MMS	9- -26	-105	8	2	.9986	115	7	7	9911
27	B8COMFS	9- -27	2	2	3	.4934	-5	-1	4	3672
28	B8P2MFS	9- -28	7	0	5	.4724	-1	-20	9	7824
29	B8S4MMS	9- -29	-237	-36	5	.9992	-242	-29	10	9955
30	B8S7MMS	9- -30	0	0	0	1.0000	0	0	0	1 0000
31	B8S2MFS	9- -31	-17	21	7	.8609	-20	-4	7	7465
32	M9COS	9- -32	-40	-1	5	.9700	-40	-4	5	9574
33	M9P11P	9- -33	30	-4	6	.9149	29	-9	6	9383
34	M9S11P	9- -34	22	9	7	.8834	33	9	6	.9244
35	M11COS	9- -35	0	0	0	1.0000	0	0	0	1.0000
36	M11S11P	9- -36	7	23	8	.8767	6	22	7	8627
37	M13COS	9- -37	-74	-2	9	.9637	-62	4	8	9568
38	M13P12P	9- -38	0	0	0	1.0000	0	0	0	1.0000
39	M13S12P	9- -39	-22	31	6	.9408	-22	29	5	9774
40	M15COS	5- -40	-102	6	9	.9802	-101	-2	8	9852
41	M15S13P	9- -41	-92	22	7	.9818	-90	18	11	9718
42	M17COS	9- -42	-108	0	6	.9936	-112	0	7	.9838
43	M17P13P	9- -43	-43	-28	7	.9716	-37	-24	9	8922
44	M17S13P	9- -44	-37	41	7	.9655	-46	40	9	9718
45	M19COS	9- -45	-149	-5	6	.9966	-152	-5	7	9953
46	M19S13P	9- -46	-35	87	7	.9888	-36	77	10	.9844
47	M23COS	9- -47	-146	8	6	.9951	-147	7	7	9947
48	M23S13.9P	9- -46	-190	106	6	.9979	-195	110	8	9979
49	M25P13P	9- -49	-184	-121	4	.9995	-185	-122	8	9962
50	M25S13P	9- -50	-175	128	5	.9983	-180	129	6	9988
51	M27COS	9- -51	-139	5	33	.8787	-123	31	42	8386
52	M27S14P	9- -52	-213	170	11	.9952	-220	163	14	9963
53	M29COS	9- -53	0	0	0	1.0000	0	0	0	1 0000
54	M29P14P	9- -54	0	0	0	1.0000	0	0	0	1 0000
55	M29S14P	9- -55	-249	189	7	.9983	-251	186	10	9986
56	M31COS	9- -56	-338	2	10	.9978	-341	-1	14	9958
57	M31S14P	9- -57	-355	213	7	.9991	-354	213	9	9993
58	H24 1S20P(C)	9- -58	-226	123	6	.9985	-220	126	8	9983
59	F9S4P(C)	9- -59	-34	77	6	.9896	-44	82	9	9890
60	H36P18 5(D)	9- -60	-9	1	6	.8953	-15	0	8	6254
61	B16COMMP	9-A- 1	168	-2	7	.9962	173	-14	10	.9929
62	B16COMMS	9-A- 2	-251	-5	37	.9501	-261	70	66	9019
63	B16P4MMP	9-A- 3	193	43	19	.9827	197	20	16	9824
64	B16P4MMS	9-A- 4	0	0	0	1.0000	0	0	0	1 0000
65	B16P8MMP	9-A- 5	198	56	33	.9848	228	29	31	.9632
66	B16P8MMS	9-A- 6	-42	42	21	.7661	3	15	20	3488
67	B16COMFP	9-A- 7	76	10	11	.9597	78	-8	10	9624
68	B16COMFS	9-A- 8	92	7	10	.9764	83	-8	11	9681
69	B16P3MFP	9-A- 9	-26	59	31	7240	-44	59	36	7869
70	B16P3MFS	9-A-10	282	17	38	.9612	269	-23	27	9784
71	B16COFIP	9-A-11	101	15	14	.9614	96	-2	15	9424
72	B16COFIS	9-A-12	0	0	0	1.0000	0	0	1	1149
73	B16P2FIP	9-A-13	103	35	15	.9670	126	22	16	9854
74	B16P2FIS	9-A-14	-44	8	14	7813	-34	5	13	7722
75	B16S4MMP	9-A-15	137	2	12	.9824	137	-24	18	9774

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
76	B16S4MMS	9-A-16	-153	-29	7	.9958	-179	-24	20	.9671
77	B16S8MMP	9-A-17	172	-31	20	.9648	175	-49	24	.9678
78	B16S8MMS	9-A-18	-19	-20	17	.6987	-4	-49	25	.7476
79	B16S3MFP	9-A-19	0	0	0	1.0000	0	0	0	1.0000
80	B16S3MFS	9-A-20	233	-10	29	.9616	231	-44	40	.9453
81	B16S2FIP	9-A-21	151	-1	15	.9751	140	-20	22	.9531
82	B16S2FIS	9-A-22	-108	-29	15	.9675	-123	-24	15	.9608
83	B16COMMRH	9-A-23	-15	-23	32	.4599	-47	-28	37	.4666
84	B16COMMRD	9-A-24	-73	26	30	.7037	-79	27	34	.7859
85	B16COMMRV	9-A-25	0	0	0	1.0000	0	0	0	1.0000
86	B16P311RV	9-A-26	95	47	24	.9276	115	35	28	.8623
87	B16P311RD	9-A-27	117	17	28	.8989	137	-2	25	.9278
88	B16P311RH	9-A-28	-215	23	17	.9838	-226	31	19	.9850
89	B16P7 SFFRV	9-A-29	894	93	64	.9888	789	-24	45	.9923
90	B16P7 SFFRD	9-A-30	0	0	0	1.0000	0	0	0	1.0000
91	B16P7 SFFRH	9-A-31	-354	44	16	.9953	-359	89	24	.9919
92	B16S311RH	9-A-32	-186	-44	14	.9892	-206	-38	19	.9766
93	B16S311RD	9-A-33	230	54	26	.9778	216	28	40	.9180
94	B16S311RV	9-A-34	222	-1	30	.9571	190	-33	38	.9264
95	B16S7.SFFRH	9-A-35	-339	-76	29	.9861	-343	-15	24	.9878
96	B16S7.SFFRD	9-A-36	368	-41	36	.9743	421	-90	72	.9479
97	B16S7.SFFRV	9-A-37	619	-38	54	.9810	660	-139	83	.9712
98	F9CONA	9-A-38	-57	13	14	.8672	-20	6	14	.5985
99	F13CONA	9-A-39	-38	5	4	.9757	-34	-2	6	.9310
100	I17COP	9-A-40	205	7	10	.9945	200	-3	10	.9934
101	I21 3COP	9-A-41	149	-3	20	.9687	153	-4	14	.9797
102	F25CONA	9-A-42	-51	6	14	.8295	-27	5	8	.5539
103	F29CONA	9-A-43	-37	12	6	.9413	-42	6	11	.8783
104	I9COP	9-A-44	0	0	0	1.0000	0	0	0	1.0000
105	I13COP	9-A-45	36	1	4	.9702	22	-4	7	.8445
106	F17CONA	9-A-46	-21	1	5	.8577	-25	-1	8	.8022
107	F21 3CONA	9-A-47	-29	5	10	.7536	-22	5	15	.5918
108	H9COP	9-A-48	67	17	8	.9726	-5	-16	42	.1051
109	H11COP	9-A-49	76	7	15	.9212	66	-1	15	.8927
110	H13COP	9-A-50	0	0	0	1.0000	0	0	0	1.0000
111	H15COP	9-A-51	-1	5	21	.2110	-13	15	22	.4678
112	H17COP	9-A-52	13	6	56	.1996	96	6	61	.5449
113	H19COP	9-A-53	0	0	0	1.0000	0	0	0	1.0000
114	H23COP	9-A-54	174	4	8	.9953	177	-4	10	.9920
115	H25COP	9-A-55	233	6	7	.9979	230	-1	8	.9969
116	H27COP	9-A-56	349	1	10	.9978	342	-6	14	.9959
117	H29COP	9-A-57	433	8	6	.9995	431	1	9	.9990
118	H31COP	9-A-58	518	3	7	.9996	513	-2	8	.9994
119	H47COP	9-A-59	685	-1	6	.9998	684	-3	8	.9996
120	H1259 S(D)	9-A-60	-11	1	8	.5102	-10	0	6	.6248
121	B24COMMP	9-B-1	98	4	7	.9883	105	-8	6	.9925
122	B24COMMS	9-B-2	-290	24	43	.9450	-329	50	73	.9104
123	B24S4MMP	9-B-3	56	0	8	.9484	44	-15	6	.9695
124	B24P4MMS	9-B-4	0	0	0	1.0000	0	0	0	1.0000
125	B24S7MMP	9-B-5	38	13	7	.9526	17	7	10	.5823
126	B24P7MMS	9-B-6	-60	85	14	.9598	-7	70	16	.9394
127	B24COMFP	9-B-7	39	5	9	.8966	43	-6	6	.9615
128	B24COMFS	9-B-8	-30	7	8	.8390	-31	-2	8	.8468
129	B24S4MFP	9-B-9	-10	-10	13	.5584	-25	-24	12	.7801
130	B24P5MFS	9-B-10	136	74	23	.9666	169	37	25	.9437
131	B24COFIP	9-B-11	46	13	9	.9395	44	3	9	.9048
132	B24COFIS	9-B-12	0	0	0	1.0000	0	0	1	.1198
133	B24S3FIP	9-B-13	70	-12	13	.9191	47	-27	12	.9332
134	B24P3FIS	9-B-14	-65	31	8	.9593	-52	22	12	.9347
135	B24P4MMP	9-B-15	68	19	7	.9796	80	7	7	.9795
136	B24S4MMS	9-B-16	-173	-45	9	.9955	-192	-55	10	.9926
137	B24P7MMP	9-B-17	94	9	5	.9940	112	1	6	.9932
138	B24S7MMS	9-B-18	-24	-52	21	.8711	-48	-82	23	.8908
139	B24P5MFP	9-B-19	0	0	0	1.0000	0	0	0	1.0000
140	B24S4MFS	9-B-20	68	-2	9	.9649	55	-10	9	.9496
141	B24P3FIP	9-B-21	72	27	13	.9548	73	19	12	.9290
142	B24S3FIS	9-B-22	-44	-17	7	.9601	-59	-23	8	.9505
143	B24COMMRH	9-B-23	-207	25	9	.9945	-219	25	17	.9877
144	B24COMMRD	9-B-24	-94	20	12	.9592	-99	23	14	.9663
145	B24COMMRV	9-B-25	0	0	0	1.0000	0	0	0	1.0000
146	B24P411RH	9-B-26	-354	72	12	.9968	-350	89	15	.9968
147	B24P411RD	9-B-27	-114	39	6	.9916	-121	43	12	.9845
148	B24P411RV	9-B-28	97	21	14	.9627	100	5	12	.9671
149	B24P9FFRV	9-B-29	366	178	29	.9919	441	137	33	.9843
150	B24P9FFRD	9-B-30	0	0	0	1.0000	0	0	0	1.0000

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
151	B24P9FFRH	9-B-31	-199	-6	15	9865	342	3	11	9945
152	B24S411RH	9-B-32	-353	-89	15	9969	374	-78	21	9912
153	B24S411RD	9-B-33	-86	-44	11	9815	108	40	6	9856
154	B24S411RV	9-B-34	81	-8	15	9144	56	24	15	9709
155	B24S9FFRH	9-B-35	-181	-33	13	9904	165	-16	20	9624
156	B24S9FFRD	9-B-36	110	-34	16	9451	92	56	16	9702
157	B24S9FFRV	9-B-37	287	-40	29	9732	230	92	33	9707
158	125COP	9-B-38	334	-5	6	9993	340	8	5	9994
159	129COP	9-B-39	279	6	4	9995	285	[illegible]	3	9996
160	B32CO 1MZP(C)	9-B-40	-251	8	8	9974	260	0	9	997[illegible]
161	M31 9COP(C)	9-B-41	-564	19	7	999[illegible]	572	-3	[illegible]	9994
162	M22.SS9.SP(C)	9-B-42	-271	71	7	9962	260	-72	9	9980
163	M23P 3P(C)	9-B-43	-186	-31	4	9990	-193	32	8	9953
164	M22.SP 3P(C)	9-B-44	-184	-11	7	9971	-194	[illegible]	8	9954
165	M12 SP 4P(C)	9-B-45	-49	-6	4	9852	69	6	9	9567
166	M12 SP.5P(C)	9-B-46	-50	-3	5	9783	93	6	[illegible]	9654
167	M12 SP4P(C)	9-B-47	-73	-15	5	989[illegible]	84	5	9	9712
168	B24P11.6P(SC)	9-B-48	116	58	13	9848	4	50	16	9642
169	H23.9S8.SP(HSL)	9-B-49	-299	104	4	9994	292	[illegible]	[illegible]	9990
170	H23 9S8 SP(HSU)	9-B-50	371	-21	10	9982	187	[illegible]	5	9996
171	H23 9P8 SP(HSL)	9-B-51	-294	-87	17	9941	-298	-71	-15	9931
172	H23.9P8.SP(HSU)	9-B-52	328	61	11	9978	345	63	10	9978
173	M60S9P(C)	9-B-53	0	0	0	1 0000	0	0	0	1 0000
174	M48 1P8P(C)	9-B-54	-344	-128	14	9974	357	-28	[illegible]	9944
175	B48S5MMS(BM)	9-B-55	51	15	18	8403	60	32	[illegible]	8505
176	B48S5MZP(BM)	9-B-56	-145	22	24	9327	-122	56	25	9466
177	B48S5MZS(BM)	9-B-57	-104	4	35	7950	72	54	37	8228
178	B48S5 1MZP(BM)	9-B-58	-53	17	13	8599	30	37	13	9164
179	M49 SS9P(IF)	9-B-59	-393	161	7	9991	392	-55	8	9993
180	H28P17.5(D)	9-B-60	-9	-1	6	5516	-2	0	2	2484
181	B40COTTP	8- - 1	0	1	1	5492	0	0	1	0340
182	B40COTTS	8- - 2	0	1	1	3710	1	0	1	1669
183	B40P4TTP	8- - 3	0	0	1	3059	0	0	0	1269
184	B40P4TTS	8- - 4	0	0	0	1 0000	0	0	1	2471
185	B40P8TTP	8- - 5	0	0	0	1 0000	0	0	0	1 0000
186	B40P8TTS	8- - 6	0	0	1	0563	0	0	0	1 0000
187	B40CO2TP	8- - 7	1	0	1	2596	0	0	1	1447
188	B40CO2TS	8- - 8	1	1	1	6100	-1	0	1	2966
189	B40P42TP	8- - 9	0	0	0	1 0000	0	0	0	1 0000
190	B40P42TS	8- -10	1	0	1	3012	0	0	0	2058
191	B40P82TP	8- -11	-1	0	2	1010	6	0	4	5380
192	B40P82TS	8- -12	0	0	0	1 0000	0	0	0	1 0000
193	B40COMZP	8- -13	0	0	0	1 0000	0	0	0	1 0000
194	B40COMZS	8- -14	0	0	1	2085	0	0	0	1 0000
195	B40COMFP	8- -15	-4	2	3	5196	2	0	2	3677
196	B40COMFS	8- -16	0	0	0	1 0000	0	0	1	2177
197	B40P7MFP	8- -17	0	0	0	1 0000	0	0	1	3526
198	B40P7MFS	8- -18	0	1	1	3524	1	0	1	2234
199	B40COFIP	8- -19	0	0	0	1.0000	0	0	0	1 0000
200	B40COFIS	8- -20	0	0	0	1 0000	0	0	0	3275
201	B40P6FIP	8- -21	0	0	0	1 0000	0	0	0	1129
202	B40P6FIS	8- -22	0	0	0	0981	0	0	0	1 0000
203	B40S4TTP	8- -23	0	0	0	1 0000	0	0	0	.2339
204	B40S4TTS	8- -24	0	0	0	1 0000	0		0	1 0000
205	B40S8TTP	8- -25	0	0	0	1 0000	0	0	0	1 0000
206	B40S8TTS	8- -26	0	0	1	1131	0	0	0	1 0000
207	B40S42TP	8- -27	0	0	0	1 0000	0	0	0	1 0000
208	B40S42TS	8- -28	0	0	1	1862	0	0	0	.2513
209	B40S82TP	8- -29	0	0	0	1 0000	0	0	1	2119
210	B40S82TS	8- -30	0	0	0	2046	0	0	1	.2419
211	B40S4MFP	8- -31	0	0	1	1135	0	0	0	1598
212	B40S4MFS	8- -32	0	0	0	1 0000	0	0	0	1 0000
213	B40S6FIP	8- -33	0	0	0	0981	0	0	0	2385
214	B40S6FIS	8- -34	0	0	0	1 0000	1	0	1	2917
215	B40COHHRH	8- -35	0	0	1	2045	0	0	1	1228
216	B40COHHRD	8- -36	0	0	0	1 0000	0	0	1	1839
217	B40COHHRV	8- -37	0	0	0	1 0000	0	0	0	1 0000
218	B40P611RH	8- -38	0	0	0	0852	0	0	0	1683
219	B40P611RD	8- -39	0	0	1	1758	0	0	1	2216
220	B40P611RV	8- -40	-1	1	1	1773	-1	0	1	0901
221	B40P9FIRV	8- -41	0	0	1	0388	0	0	0	1 0000
222	B40P9FIRD	8- -42	0	1	1	2660	0	0	0	1 0000
223	B40P9FIRH	8- -43	0	0	1	1842	0	0	1	2049
224	B40P12FFRV	8- -44	0	0	0	1 0000	0	0	0	1683
225	B40P12FFRD	8- -45	0	0	0	1 0000	1	0	1	2566

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
226	B40P12FFRH	8- -46	0	1	1	.3678	0	0	0	0981
227	B40S611RV	8- -47	0	0	1	2292	0	0	0	1 0000
228	B40S611RD	8- -48	0	0	1	1945	0	0	0	1 0000
229	B40S611RH	8- -49	0	0	1	1833	0	0	0	1 0000
230	B40S9FIRH	8- -50	0	0	0	0819	0	0	1	1551
231	B40S9FIRD	8- -51	-1	0	1	.3723	0	0	0	1 0000
232	B40S9FIRV	8- -52	0	0	0	1 0000	0	0	0	1 0000
233	B40S12FFRH	8- -53	0	0	0	1 0000	0	0	1	2240
234	B40S12FFRD	8- -54	0	0	0	2087	1	0	1	1558
235	B40S12FFRV	8- -55	0	0	0	1 0000	0	0	0	1 0000
236	B48COMMP	8- -56	0	0	1	1286	1	0	1	3500
237	[illegible]S8 [illegible]FRV	8- -57	0	0	1	3082	0	0	0	0471
238	B48S8 4MFRD	8- -58	0	0	0	1.0000	1	0	1	2213
239	B48S8 4MFRH	8- -59	0	0	0	1 0000	0	0	0	1 0000
240	W46P22T(D)	8- -60	0	0	1	2259	0	0	0	1 0000
241	B48CCTTP	8-A- 1	0	1	1	2885	0	0	1	2493
242	B48COTTS	8-A- 2	0	1	1	2833	1	0	1	4256
243	B48P4TTP	8-A- 3	0	0	1	1062	0	0	0	1 0000
244	B48P4TTS	8-A- 4	0	0	0	1 0000	-1	0	1	1517
245	B48P8TTP	8-A- 5	0	0	0	.0981	0	0	0	1 0000
246	B48P8TTS	8-A- 6	1	0	1	2582	0	0	0	1 0000
247	B48CO2TP	8-A- 7	0	0	0	1 0000	0	0	0	0481
248	B48CO2TS	8-A- 8	0	1	1	3921	0	0	0	1 0000
249	B48P42TP	8-A- 9	0	0	0	1 0000	0	0	0	1 0000
250	B48P42TS	8-A-10	1	0	1	0589	0	0	0	1 0000
251	B48P82TP	8-A-11	0	0	0	1 0000	0	0	0	1 0000
252	B48P82TS	8-A-12	0	0	0	1269	-1	0	1	1369
253	B48COM2P	8-A-13	0	0	0	1 0000	0	0	1	0104
254	B48COM2S	8-A-14	0	0	0	.2116	0	0	0	1 0000
255	B48COMFP	8-A-15	0	0	0	1.0000	0	0	0	1350
256	B48COMFS	8-A-16	0	0	0	1 0000	0	0	1	2494
257	B48P6MFP	8-A-17	0	0	0	1 0000	0	0	1	1002
258	B48P6MFS	8-A-18	0	0	0	1001	0	0	0	1 0000
259	B48COFIP	8-A-19	0	0	0	1 0000	0	0	0	1 0000
260	B48COFIS	8-A-20	0	0	0	1521	0	0	0	1236
261	B48P6FIP	8-A-21	0	0	0	1020	0	0	0	1598
262	B48P6FIS	8-A-22	0	0	0	1 0000	0	0	0	0924
263	B48S4TTP	8-A-23	0	0	0	1 0000	0	0	1	2832
264	B48S4TTS	8-A-24	0	0	0	1.0000	0	0	0	1 0000
265	B48S8TTP	8-A-25	0	0	0	1 0000	0	0	0	1 0000
266	B48S8TTS	8-A-26	0	0	1	1767	-1	0	1	3483
267	B48S42TP	8-A-27	0	0	0	1.0000	0	0	0	1 0000
268	B48S42TS	8-A-28	0	0	0	1 0000	0	0	1	2435
269	B48S82TP	8-A-29	0	0	1	.2192	-1	0	1	3458
270	B48S82TS	8-A-30	0	0	0	1847	0	0	1	2417
271	B48S6MFP	8-A-31	0	0	1	2294	0	0	0	1 0000
272	B48S6MFS	8-A-32	0	0	0	1 0000	0	0	0	1 0000
273	B48S6FIP	8-A-33	0	0	0	1.0000	0	0	0	1 0000
274	B48S6FIS	8-A-34	0	0	1	2322	0	0	1	1847
275	B48COHHRH	8-A-35	0	0	0	1 0000	-1	0	1	3505
276	B48COHHRD	8-A-36	0	0	1	2336	0	0	1	2081
277	B48COHHRV	8-A-37	0	0	0	1 0000	0	0	1	1684
278	B48P711RV	8-A-38	0	0	0	0852	0	0	0	2428
279	B48P711RD	8-A-39	0	0	0	1349	0	0	0	1236
280	B48P711RH	8-A-40	0	0	0	1 0000	0	0	0	1 0000
281	B48P10FIRV	8-A-41	-1	1	1	4339	0	0	0	1 0000
282	B48P10FIRD	8-A-42	0	0	0	1708	0	0	1	1262
283	B48P10FIRH	8-A-43	0	0	1	.0779	0	0	0	1 0000
284	B48P12FFRV	8-A-44	0	0	0	1.0000	0	0	0	0713
285	B48P12FFRD	8-A-45	0	0	1	.2175	0	0	1	2285
286	B48P12FFRH	8-A-46	-1	1	1	.3493	0	0	1	1031
287	B48S711RH	8-A-47	0	0	1	2428	0	0	0	1 0000
288	B48S711RD	8-A-48	0	0	0	1 0000	0	0	0	1 0000
289	B48S711RV	8-A-49	0	0	1	2895	0	0	0	1 0000
290	B48S10FIRH	8-A-50	0	0	0	1 0000	0	0	1	1593
291	B48S10FIRD	8-A-51	0	0	1	1169	0	0	0	1 0000
292	B48S10FIRV	8-A-52	0	0	0	1.0000	0	0	0	1 0000
293	B48S12IIRH	8-A-53	0	0	0	1 0000	0	0	1	1965
294	B48S12IIRD	8-A-54	0	1	1	3892	1	0	1	5747
295	B48S12IIRV	8-A-55	0	0	0	1 0000	0	0	0	1 0000
296	H48 1520P(C)	8-A-56	0	1	2	3445	-4	0	2	7320
297	B48S13MMS(C)	8-A-57	1	1	1	.3685	0	0	0	2214
298	B56S911P(C)	8-A-58	0	0	1	2157	0	0	1	0885
299	B56P4MMS(C)	8-A-59	3	0	3	.3704	1	2	3	2491
300	B40P1(DK)	8-A-60	0	0	1	0253	0	0	0	1 0000

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
301	M30.4P10W	8-B- 1	0	0	4	2476	-1	0	1	3269
302	M30 4P10 5P	8-B- 2	0	0	1	0931	1	0	1	2685
303	M30.4P11W	8-B- 3	0	0	1	1890	0	0	0	1.0000
304	M30 4P11 5P	8-B- 4	0	0	1	1373	0	0	0	1.0000
305	M30 4P12W	8-B- 5	0	0	1	1911	0	1	1	2672
306	M30 4P13W	8-B- 6	0	0	1	0982	0	0	0	1897
307	M31 2P10W	8-B- 7	0	0	1	1397	0	0	1	2852
308	M31 2P10 5PRL	8-B- 8	-1	0	1	1783	0	0	1	1267
309	M31 2P10 5PRD	8-B- 9	0	0	1	1812	0	0	0	2116
310	M31 2P10 5PRH	8-B-10	0	0	1	2217	0	0	0	0924
311	M31 2P11W	8-B-11	1	0	1	1234	0	0	1	958
312	M31.2P11 5P	8-B-12	0	0	1	1393	0	0	0	0508
313	M31.2P12W	8-B-13	1	0	3	1601	1	0	1	3037
314	M31 2P13W	8-B-14	0	0	0	2044	0	0	0	1.0000
315	M31 2P14W	8-B-15	0	0	1	2450	1	0	1	3437
316	B40P8MMRH(BB)	8-B-16	1	0	1	0885	2	0	2	4668
317	B32P10MMP	8-B-17	0	0	2	0719	1	0	1	3174
318	B40P8MMRD(BB)	8-B-18	-1	0	1	2122	1	0	1	1981
319	B32P10.5MMP	8-B-19	0	0	0	1.0000	0	0	0	1.0000
320	B40P8MMRV(BB)	8-B-20	0	0	1	0750	0	0	0	1683
321	M31 8P11.2PRH	8-B-21	0	0	2	1999	0	0	1	2594
322	M31 8P11 2PRD	8-B-22	0	0	0	1236	0	0	1	1751
323	M31 8P11.2PRL	8-B-23	0	0	1	1876	0	0	0	0714
324	M31 8P11 5P	8-B-24	0	0	0	1.0000	0	0	0	1.0000
325	M31 8P12W	8-B-25	0	0	0	1.0000	0	0	0	1.0000
326	M31 8P13W	8-B-26	-2	0	2	4559	-1	1	1	8194
327	M31.8P14W	8-B-27	0	0	0	1.0000	0	0	0	1.0000
328	M32 4P10W	8-B-28	0	0	0	2500	0	0	0	0713
329	M32 4P10 5P	8-B-29	0	0	1	2061	1	0	1	0485
330	M32.4P10.7P	8-B-30	0	0	0	1129	0	0	1	2115
331	M32 4P11 1P	8-B-31	0	0	1	1272	1	0	1	3875
332	M32 4P11 3P	8-B-32	0	0	0	1.0000	0	0	0	1.0000
333	M32 4P11 5PRH	8-B-33	1	0	1	3917	0	0	0	1129
334	M32 4P11.5PRD	8-B-34	0	0	1	1497	0	0	1	1306
335	M32 4P11 5PRL	8-B-35	0	0	0	1481	0	0	1	2033
336	M32.4P12W	8-B-36	1	0	1	1400	0	0	1	2287
337	M32 4P13W	8-B-37	0	0	1	1771	0	0	0	1.0000
338	M32 4P14W	8-B-38	-1	0	1	2852	0	0	0	1.0000
339	M31.2S11W	8-B-39	0	0	1	1601	0	0	0	1.0000
340	M31 2S12W	8-B-40	0	0	0	1.0000	0	0	0	1129
341	M31 2S13W	8-B-41	1	0	1	0737	0	0	0	1.0000
342	M31.2S14W	8-B-42	0	0	1	2617	0	0	1	0857
343	M31 8S11W	8-B-43	0	0	2	2321	0	0	0	1.0000
344	M31 8S11 2PRL	8-B-44	-1	0	2	0537	0	0	0	1347
345	M31 8S11.2PRD	8-B-45	0	0	0	1820	0	0	0	1981
346	M31 8S11 2PRH	8-B-46	0	0	1	2208	0	1	1	2473
347	M31 8S12W	8-B-47	0	0	1	1762	0	0	0	1.0000
348	M31 8S13W	8-B-48	0	0	1	1801	0	0	0	1.0000
349	M31 8S14W	8-B-49	-2	-1	7	1299	0	0	0	1022
350	M32 6S10W	8-B-50	-3	0	4	1711	0	0	1	2077
351	M32.6S10 7P	8-B-51	0	0	1	1244	0	0	0	1.0000
352	M32 6S11.3P	8-B-52	0	0	0	1.0000	0	0	0	1.0000
353	M32 6S12W	8-B-53	0	0	1	1558	-1	0	1	1405
354	M32 6S13W	8-B-54	1	0	1	3576	1	0	1	4600
355	M32 6S14W	8-B-55	0	0	0	1.0000	0	0	0	1.0000
356	H24 1S17 SP(HSL)	8-B-56	0	1	2	0532	-4	-1	2	7042
357	H24 1S17 SP(HSU)	8-B-57	2	-1	1	4266	-2	0	1	5212
358	H24.2S20 SP(HSL)	8-B-58	-3	1	2	5884	-3	1	2	5710
359	H24 2S20 SP(HSU)	8-B-59	0	0	2	2387	1	0	2	0900
360	W52P22T(0)	8-B-60	0	0	1	2116	0	0	1	2445
361	M21P13 SP	7- - 1	-502	34	6	9996	-489	37	10	9991
362	M21P12W	7- - 2	-9	2	12	1865	-5	0	10	0636
363	M21P6W	7- - 3	-226	-62	9	9974	-219	-63	15	9863
364	M21P2W	7- - 4	-207	-33	6	9983	-214	-31	9	9954
365	M21C0W	7- - 5	0	0	0	1.0000	0	0	0	1.0000
366	M21S2W	7- - 6	-207	20	32	9409	-224	29	45	9215
367	M21S4W	7- - 7	-253	31	7	9977	-254	29	9	9970
368	M21S6W	7- - 8	-192	72	3	9991	-190	73	5	9991
369	M21S8W	7- - 9	-193	76	4	9991	-194	77	3	9996
370	M21S10W	7- -10	-161	84	6	9960	-169	81	6	9971
371	M21S11 SP	7- -11	-144	73	2	9994	-153	82	6	9980
372	M21S12W	7- -12	-97	84	3	9982	-97	82	4	9988
373	M21S12 SP	7- -13	-89	70	8	9861	-94	64	13	9825
374	M21S13W	7- -14	-117	88	7	9928	-121	83	8	9958
375	M21S13 SP	7- -15	-62	101	9	9884	-56	96	6	9965

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
376	H16 2515P(CU)	7- -16	-130	48	7	9925	-138	51	10	9521
377	H21C0W	7- -17	160	4	10	9807	154	0	14	9805
378	H21S2W	7- -18	163	26	11	9904	164	21	10	9893
379	H21P2W	7- -19	167	-25	4	9985	170	-22	8	9570
380	H21S5W	7- -20	144	32	2	9996	139	33	4	9978
381	H21S7W	7- -21	101	36	2	9992	97	36	3	9982
382	H21P7W	7- -22	110	-32	12	9664	76	-31	13	9559
383	H21S9W	7- -23	66	52	2	9992	64	52	2	9970
384	H21S11W	7- -24	-132	81	2	9494	128	83	2	9990
385	H21P11W	7- -25	68	-56	4	9543	67	-59	6	9931
386	H21S13W	7- -26	63	64	3	9965	67	69	4	9955
387	H21S13 SP	7- -27	7	80	3	9579	9	81	3	9979
388	H21P13 SP	7- -28	-16	-86	2	9994	-6	-86	2	5990
389	H21S14W	7- -29	-56	67	145	1136	-12	174	223	3842
390	H21S16W	7- -30	-78	77	3	9980	-80	78	4	9986
391	H21P16W	7- -31	-108	-78	3	9995	-107	-78	[illegible]	9994
392	H21S18W	7- -32	7	60	19	9178	94	59	15	5474
393	H21P18W	7- -33	-158	-79	4	9992	163	-82	7	9951
394	T33C0W	7- -34	39	-5	3	9873	-32	[illegible]	8	8830
395	T35C0W	7- -35	-1	2	14	2360	0	3	17	2161
396	T31C0W	7- -36	-52	74	88	3798	1	2	66	2488
397	T37C0W	7- -37	0	23	66	1290	35	7	51	1543
398	T41C0W	7- -38	16	32	34	4229	3	6	32	2015
399	T43C0W	7- -39	-24	3	4	9422	-21	3	4	9249
400	T45C0W	7- -40	8	2	2	9053	-6	0	2	6368
401	T47C0W	7- -41	-11	2	2	9086	-12	11	3	8265
402	Z33C0W	7- -42	34	-1	3	9788	-33	1	2	987
403	Z35C0W	7- -43	-52	7	3	9921	-54	4	4	9871
404	Z37C0W	7- -44	119	-2	2	9996	-119	1	3	9989
405	Z39C0W	7- -45	-184	5	3	9991	-186	1	5	9983
406	Z41C0W	7- -46	0	0	0	1 0000	0	0	0	1 0000
407	Z43C0W	7- -47	-280	6	2	9998	-281	11	2	9999
408	Z45C0W	7- -48	-352	-2	3	9998	-350	0	3	9998
409	Z47C0W	7- -49	-407	4	31	9857	-352	23	32	9814
410	M33C0W	7- -50	-300	25	29	9763	-288	11	9	9977
411	M35C0W	7- -51	-406	6	14	9971	-413	2	11	9982
412	M37C0W	7- -52	0	0	0	1 0000	0	0	0	1 0000
413	M39C0W	7- -53	0	0	0	1 0000	0	0	0	1 0000
414	M41C0W	7- -54	0	0	0	1 0000	0	0	0	1 0000
415	M43C0W	7- -55	0	0	0	1 0000	0	0	0	1 0000
416	M45C0W	7- -56	0	0	0	1 0000	0	0	0	1 0000
417	M47C0W	7- -57	0	0	0	1 0000	0	0	0	1 0000
418	B405BMMW C1	7- -58	0	0	0	1 0000	0	0	0	1 0000
419	B405 2MMF C	7- -59	0	0	0	1 0000	0	0	0	1 0000
420	B [illegible]	7- -60	0	0	0	1 0000	0	0	0	1 0000
421	[illegible] 30C0P	7-A- 1	230	9	12	9936	255	-7	13	9938
422	[illegible] 0P	7-A- 2	371	7	5	9996	379	1	6	9994
423	[illegible] 0P	7-A- 3	384	11	12	9976	387	-4	15	9966
424	145 30C0P	7-A- 4	365	4	5	9996	359	-3	9	9985
425	F33 370W	7-A- 5	-37	2	5	9552	-36	-4	9	8706
426	F37C0W	7-A- 6	-22	1	4	9140	-22	1	6	8680
427	F41C0W	7-A- 7	-30	0	11	7663	-29	-4	11	7384
428	F45 30C0W	7-A- 8	-17	3	4	8601	-19	-1	6	8157
429	H33C0P	7-A- 9	596	-5	4	9999	591	-12	7	9997
430	H35C0P	7-A-10	0	0	0	1 0000	0	0	0	1 0000
431	H37C0P	7-A-11	556	11	8	9995	552	6	19	9970
432	H39C0P	7-A-12	606	-7	11	9992	579	-1	9	9995
433	H41C0P	7-A-13	640	-1	8	9987	645	0	11	9993
434	H43C0P	7-A-14	0	0	0	1 0000	0	0	0	1 0000
435	H45C0P	7-A-15	0	0	0	1 0000	0	0	0	1 0000
436	H21C0P	7-A-16	0	0	0	1 0000	0	0	0	1 0000
437	M33S11 1P	7-A-17	316	141	9	9978	-313	140	10	9986
438	M33P11 1P	7-A-18	273	-83	21	9902	-267	-100	13	9937
439	M35S11 1P	7-A-19	356	170	13	9963	-337	175	12	9984
440	M37S11 1P	7-A-20	-349	179	9	9983	-348	183	13	9984
441	M37P11 1P	7-A-21	-424	-201	28	9942	-409	-183	24	9911
442	M39S11 1P	7-A-22	31	16	116	2165	106	121	261	1205
443	M41S11 1P	7-A-23	358	155	2	9999	-352	158	3	9999
444	M41P11 1P	7-A-24	444	-171	4	9999	-450	-165	3	9999
445	M43S11 1P	7-A-25	376	193	4	9997	-375	191	9	9993
446	M45S11 1P	7-A-26	380	212	2	9999	-374	216	2	9999
447	M45P11 1P	7-A-27	474	-239	3	9999	479	-237	2	9999
448	M47S11 1P	7-A-28	203	204	2	9999	-200	208	2	9999
449	M33S14P	7-A-29	38	224	13	9970	-421	120	345	5214
450	M33P14P	7-A-30	0	0	0	1 0000	0	0	0	1 0000

TABLE B.2 (continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
451	M35S14P	7-A-31	-385	230	3	9999	-383	232	4	9999
452	M37S14P	7-A-32	-385	237	17	9958	-318	235	16	9978
453	M37P14P	7-A-33	-381	-236	11	9991	-384	-251	9	9989
454	M39S14P	7-A-34	-293	178	88	8350	-137	223	382	3436
455	M41S14P	7-A-35	-96	145	149	4408	46	376	303	5656
456	M41P14P	7-A-36	-301	-200	56	9668	-253	-200	69	8840
457	M43S14P	7-A-37	-230	306	242	5640	-345	279	133	8765
458	M45S14P	7-A-38	-329	285	14	9972	-311	296	21	9967
459	M45P14P	7-A-39	0	0	0	1 0000	0	0	0	1 0000
460	M47S14P	7-A-40	-396	291	13	9980	-390	295	13	9991
461	W32 1SMZO 1RV	7-A-41	258	-53	11	9953	259	-58	8	9981
462	W32 1SMZO 1RD	7-A-42	-682	128	9	9995	-665	135	13	9992
463	W32 1SMZO 1RL	7-A-43	-452	149	7	9994	-452	149	9	9993
464	W32 1SZTO 1P	7-A-44	13	43	35	6194	-4	18	22	4189
465	W35SMZO 5P	7-A-45	-416	181	5	9996	-422	171	10	9992
466	W35SMZ2W	7-A-46	-317	81	6	9990	-305	76	11	9978
467	W35SZM3 9P	7-A-47	-363	65	5	9995	-353	66	6	9995
468	W35SZTO 1P	7-A-48	-297	55	3	9998	-293	54	4	9997
469	W35SZT2W	7-A-49	101	35	11	9694	-74	51	18	9477
470	W35STZ3 9P	7-A-50	-136	13	6	9952	-129	14	8	9909
471	M49 5S9P(FD)	7-A-51	-367	162	17	9943	-342	165	21	9952
472	M49 5S9P(AD)	7-A-52	-376	164	5	9996	-376	163	6	9997
473	B48S2MMW(C)	7-A-53	-128	10	10	9831	-121	18	12	9799
474	B56S10 1MMP(C)	7-A-54	-97	23	13	9513	-72	31	12	9616
475	B40S3MMS(BM)	7-A-55	-32	-16	12	8614	-13	[illegible]	13	3397
476	B40S3MMP(BM)	7-A-56	-152	9	5	9971	-144	9	5	9974
477	B40S3MZS	7-A-57	-101	1	4	9968	-101	4	3	9980
478	B40S3MZP	7-A-58	-96	1	6	9907	-89	9	4	9957
479	B48S5MMP	7-A-59	-107	11	8	9867	-90	24	9	9836
480	H44S19(D)	7-A-60	-78	3	4	.9938	-76	5	5	9918
481	T49P10W	7-B- 1	-330	-83	5	.9995	-327	-80	6	9989
482	T49P6W	7-B- 2	-97	-22	4	9962	-96	-25	6	9893
483	T49C0W	7-B- 3	-28	2	8	8414	-27	0	11	7425
484	T49S2W	7-B- 4	-32	11	7	8772	-37	5	9	8999
485	T49S4W	7-B- 5	-23	16	5	9054	-21	14	7	9073
486	T49S6W	7-B- 6	0	0	0	1.0000	0	0	0	1 0000
487	T49S8W	7-B- 7	-203	59	9	9949	-199	56	12	9936
488	T49S10W	7-B- 8	-317	87	5	9994	-315	86	5	9996
489	T49S10 5P	7-B- 9	-419	108	6	9994	-416	114	7	9995
490	T49S10 9P	7-B-10	-484	126	7	9993	-485	123	9	9994
491	Z49P10W	7-B-11	-557	-163	3	9999	-556	-162	4	9998
492	Z49P6W	7-B-12	-379	-103	5	9996	-377	-104	5	9995
493	Z49C0W	7-B-13	0	0	0	1 0000	0	0	0	1 0000
494	Z49S2W	7-B-14	-434	28	8	9992	-436	22	8	9992
495	Z49S4W	7-B-15	-475	62	5	9997	-475	62	4	9999
496	Z49S6W	7-B-16	-545	92	7	9995	-548	88	9	9995
497	Z49S8W	7-B-17	-313	81	4	9995	-314	77	6	9994
498	Z49S10W	7-B-18	-474	164	3	9999	-470	165	2	9999
499	Z49S10 5P	7-B-19	-496	176	6	9996	-488	181	5	9998
500	Z49S10 9P	7-B-20	-493	184	3	9999	-484	185	4	9999
501	W49SMZ2W	7-B-21	-163	130	2	9997	-156	128	3	9997
502	W49SZM3 9P	7-B-22	-539	193	14	9982	-528	193	11	9994
503	W49SMZO 1RL	7-B-23	-381	220	2	9999	-373	223	3	9999
504	W49SMZO 1RD	7-B-24	-422	107	4	9998	-404	115	7	9995
505	W49SMZO 1RV	7-B-25	299	-96	4	9995	293	-113	14	9965
506	W49SZT2W	7-B-26	-465	136	3	9999	-459	139	5	9998
507	W49STZ3 9P	7-B-27	-462	119	3	9999	-450	124	3	9999
508	W49SZTO 1RL	7-B-28	-480	171	2	9999	-475	171	3	9999
509	W49SZTO 1RD	7-B-29	21	25	6	9651	16	14	11	6325
510	W49SZTO 1RV	7-B-30	161	-13	4	9986	169	-9	6	9969
511	M49P14W	7-B-31	0	0	0	1 0000	0	0	0	1 0000
512	M49P13W	7-B-32	0	0	0	1 0000	-12	-6	6	6586
513	M49P11 1P	7-B-33	-388	-200	12	.9987	-391	-211	10	9985
514	M49P10W	7-B-34	-349	-205	6	9996	-351	-197	7	9991
515	M49P6W	7-B-35	-386	-122	28	.9914	-369	-117	33	9783
516	M49P2W	7-B-36	-435	-43	11	9986	-446	-34	11	9984
517	M49C0W	7-B-37	-337	-4	6	9991	-326	2	9	9982
518	M49S2W	7-B-38	-489	31	8	9993	-490	43	8	9994
519	M49S4W	7-B-39	-477	80	10	.9987	-475	90	10	9991
520	M49S6W	7-B-40	-382	106	3	9998	-377	109	4	9998
521	M49S8W	7-B-41	-368	155	6	9994	-360	162	6	9996
522	M49S9 5P	7-B-42	-378	182	5	.9996	-370	185	4	9999
523	M49S10W	7-B-43	-361	197	4	9998	-354	202	5	9998
524	M49S10 5P	7-B-44	-384	209	2	9999	-380	212	2	9999
525	M49S10 9P	7-B-45	-376	224	3	9998	-373	225	6	9997

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
526	M49S12W	7-B-46	-375	250	4	9997	-372	256	4	9999
527	M49S12 5P	7-B-47	-369	241	3	9998	-364	243	3	9999
528	M49S13W	7-B-48	-417	283	3	9999	-412	287	3	9995
529	M49S13 5P	7-B-49	-397	294	11	9984	0	0	0	1 0000
530	M49S14W	7-B-50	-399	296	6	.9995	-384	297	5	9992
531	M49S11 1P	7-B-51	-403	219	14	.9970	-357	235	24	9953
532	B48COMMS(C)	7-B-52	-202	10	30	9469	-167	-1	26	9446
533	Z3853 SP(C)	7-B-53	-258	-2	7	9984	-253	-7	5	9989
534	Z3353 SP(C)	7-B-54	-186	-18	6	9578	-174	-18	3	9992
535	Z3353 SP(C)	7-B-55	-178	-15	5	9983	-171	-18	3	9991
536	Z43P3 SP(CO)	7-B-56	-324	-41	4	9996	-323	-42	4	9997
537	Z43P3 SP(CI)	7-B-57	-295	-40	3	9997	-295	-39	2	9998
538	Z53P3 SP(CI)	7-B-58	-399	-59	6	9996	-401	-57	4	9997
539	Z53P3 SP(CO)	7-B-59	-464	-64	13	9983	-471	-54	12	.9981
540	H52S18(C)	7-B-60	-171	-22	4	9989	-173	-22	4	9983
541	H16 2S15P(CL)	6- -1	0	0	0	1 0000	0	0	0	1 0000
542	H49P3W	6- -2	603	-65	7	.9997	598	-68	7	9957
543	H49P7W	6- -3	487	-138	7	.9994	480	-151	8	9995
544	H49P10W	6- -4	355	-202	6	9993	350	-208	5	9997
545	H49P12W	6- -5	253	-236	12	9969	202	-260	25	9929
546	H49P15 5P	6- -6	-3	-259	8	9988	-12	-263	8	9987
547	H49P18W	6- -7	1	0	1	2624	0	0	1	1384
548	H45S W	6- -8	677	28	4	9999	676	23	8	9997
549	H45S1W	6- -9	592	61	4	9999	589	59	7	9996
550	H495SW	6- -10	531	102	4	.9999	530	96	10	9991
551	H4957W	6- -11	529	157	6	.9998	540	143	5	9998
552	H4959W	6- -12	447	188	4	.9999	452	191	3	9999
553	H49S10W	6- -13	355	204	8	9995	360	199	11	9975
554	H49S11W	6- -14	313	218	4	9998	317	213	7	9989
555	H49S12W	6- -15	264	231	5	9997	277	230	9	9583
556	H49S13W	6- -16	182	249	4	9998	183	243	8	9982
557	H49S15 5P	6- -17	-25	267	4	9997	-16	266	5	9995
558	H49S16W	6- -18	18	245	44	9604	-93	317	114	8775
559	H49S18A	6- -19	0	0	0	1 0000	0	0	0	1 0000
560	H49S19W	6- -20	-366	308	3	9999	-363	304	5	9999
561	H45S11 5P	6- -21	257	223	4	9998	265	220	9	9980
562	H45S16 5P	6- -22	42	243	7	9988	-34	237	7	9990
563	T46S10 9P	6- -23	372	99	8	9986	-368	95	12	9980
564	T46S7W	6- -24	-149	46	4	.9983	-149	43	5	9978
565	T39S10 9P	6- -25	-304	75	4	9996	-302	76	7	9990
566	T39S7W	6- -26	0	0	0	1 0000	0	0	0	1 0000
567	T36S10 9P	6- -27	195	45	6	9972	-198	41	8	.9970
568	T36S7W	6- -28	-56	36	3	9939	-59	31	6	9862
569	M43S5W	6- -29	-380	135	4	9997	-381	132	7	9994
570	M43S4W	6- -30	-374	134	3	9998	-374	133	6	.9996
571	M43S8W	6- -31	-339	63	3	9998	-343	61	6	9994
572	M39S1W	6- -32	-355	100	3	9998	-359	95	8	.9992
573	M35 6A	6- -33	-331	117	5	9994	-344	119	12	9981
574	M30S11W	6- -34	-180	133	34	9358	-240	131	30	9821
575	M30S8W	6- -35	-238	95	74	8006	-364	108	63	.9527
576	M37S11W	6- -36	215	-47	128	5519	338	-135	162	7665
577	M27S8W	6- -37	-253	58	27	9682	-263	89	53	9411
578	H55S 3W	6- -38	0	0	0	1.0000	0	0	0	1 0000
579	H55P16 5P	6- -39	77	-22	6	9894	-81	-21	10	9619
580	T54P7W	6- -40	39	327	6	.9995	-31	327	10	9988
581	T54P10 9P	6- -41	-183	-17	48	8708	-187	-42	35	9125
582	T54P7W	6- -42	-42	11	8	.9099	-38	10	8	9344
583	T54P10 9P	6- -43	-165	35	20	9616	-182	35	36	9317
584	M54S8 5P	6- -44	-370	160	4	9997	-366	163	4	9999
585	H59COP	6- -45	0	0	0	1 0000	0	0	0	1 0000
586	H57COP	6- -46	806	-7	9	9997	797	-5	13	9993
587	H57S13W	6- -47	328	265	5	9998	327	245	7	9992
588	H55COP	6- -48	810	15	53	9899	915	15	65	9876
589	H53COP	6- -49	0	0	0	1.0000	0	0	0	1 0000
590	H53P13W	6- -50	307	-252	6	9994	301	-255	6	9997
591	H53S13W	6- -51	318	244	11	9990	331	252	12	9974
592	H51COP	6- -52	0	0	0	1 0000	0	0	0	1 0000
593	M51S 4P	6- -53	-385	294	3	9999	-389	292	6	9998
594	I52 SCOP	6- -54	409	-8	11	9982	417	4	12	9979
595	I57COP	6- -55	333	4	7	9990	333	-3	8	9986
596	F49COW	6- -56	-23	2	5	9043	-24	0	8	7833
597	F52 SCOW	6- -57	-15	4	9	6682	-17	3	11	6085
598	F57COW	6- -58	0	0	0	1 0000	0	0	0	1 0000
599	H54 8S21P(C)	6- -59	379	249	14	9969	-377	259	19	9977
600	H20S13 SP(D)	6- -60	-9	1	5	.5956	-13	0	7	6337

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG — SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG — SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
601	TS1COW	6-A- 1	0	0	0	1 0000	0	0	0	1 0000
602	TS3COW	6-A- 2	-22	1	7	.7984	-21	-3	7	7930
603	TS4COW	6-A- 3	-16	10	15	4182	1	5	20	2063
604	TS5COW	6-A- 4	1	13	20	3226	-54	17	54	4444
605	Z60S10.9P	6-A- 5	-1592	401	16	9997	-1629	438	33	9993
606	Z60S6W	6-A- 6	-868	167	22	9982	-872	185	21	9989
607	Z60COW	6-A- 7	1	0	1	5518	0	0	1	1821
608	Z59S10.9P	6-A- 8	-1271	323	8	9999	-1261	333	8	9999
609	Z59COW	6-A- 9	-670	4	6	9998	-671	6	6	9998
610	Z58S10 9P	6-A-10	-994	262	11	9997	-994	264	11	9998
611	Z58S6W	6-A-11	-603	103	10	9992	-607	114	6	9998
612	Z58COW	6-A-12	-650	-5	33	9936	-667	0	49	9869
613	Z57COW	6-A-13	-638	0	9	.9995	-653	1	16	9985
614	Z57S10 9P	6-A-14	-688	198	7	9997	-698	195	9	9997
615	Z56 2P10 9P	6-A-15	-738	-204	13	.9995	-733	-215	24	9969
616	Z56 2COW	6-A-16	-650	-133	7	9998	-651	-123	7	9996
617	Z56 2P6W	6-A-17	-641	-6	7	9997	-642	0	5	9998
618	Z56 2S6W	6-A-18	-677	128	6	.9997	-676	135	7	.9998
619	Z56 2S10 9P	6-A-19	-797	201	36	9943	-930	230	131	9658
620	Z55COW	6-A-20	-592	1	7	9997	-582	7	8	9996
621	Z55S10 9P	6-A-21	-769	220	4	.9999	-777	221	9	9998
622	Z54COW	6-A-22	-589	4	4	.9999	-594	2	9	.9994
623	Z55S6W	6-A-23	-641	136	6	.9996	-643	136	12	9994
624	Z54S10 9P	6-A-24	-727	217	6	9998	-732	221	9	.9997
625	Z53COW	6-A-25	-553	0	5	9998	-558	1	7	9996
626	ZS1COW	6-A-26	0	0	0	1.0000	0	0	0	1 0000
627	MS1COW	6-A-27	0	0	0	1 0000	0	0	0	1 0000
628	MS1S11 1P	6-A-28	-399	234	3	9999	-400	233	8	9996
629	149COP	6-A-29	394	4	6	9994	394	-10	9	9988
630	MS3COW	6-A-30	0	0	0	1 0000	0	0	0	1.0000
631	MS3S11 1P	6-A-31	-361	232	3	.9998	-358	230	6	9997
632	MS3S14P	6-A-32	-429	307	3	.9999	-432	305	9	9996
633	MS3P11 1P	6-A-33	-405	-221	10	9992	-401	-223	14	.9970
634	MS3P14	6-A-34	-397	-291	10	9994	-401	-293	11	9985
635	MS5COW	6-A-35	-358	-5	27	9865	-403	-20	26	9895
636	MS5S11.1P	6-A-36	850	-654	476	6618	-3	-159	130	.5675
637	MS5S14P	6-A-37	-465	315	15	9976	-463	327	12	.9993
638	MS7COW	6-A-38	0	0	0	1 0000	0	0	0	1 0000
639	MS7S11.1P	6-A-39	-489	324	11	9989	-475	324	8	.9997
640	MS7S14P	6-A-40	-336	233	6	9993	-333	232	10	.9991
641	MS7P14	6-A-41	0	0	0	1 0000	0	0	0	1 0000
642	MS7P11.1P	6-A-42	-524	-336	25	.9976	-510	-323	9	9994
643	MS9COW	6-A-43	0	0	0	1 0000	0	0	0	1 0000
644	MS9S14P	6-A-44	-445	318	5	9998	-436	315	5	9999
645	MS9S11 1P	6-A-45	-342	227	4	9998	-322	231	10	9991
646	WS5 9SMZO 1RV	6-A-46	-158	170	22	9766	-130	255	36	9812
647	WS5.9SMZO 1RD	6-A-47	113	226	19	.9935	147	288	29	9842
648	WS5 9SMZO.1RL	6-A-48	-310	171	23	.9864	-305	167	21	9943
649	WS5.9STZO 1RV	6-A-49	204	-88	7	9966	212	-72	13	.9944
650	WS5 9STZO.1RD	6-A-50	-266	4	29	.9707	-232	1	52	892[illegible]
651	WS5.9STZO 1RL	6-A-51	-774	245	13	9991	-780	233	33	9970
652	WS5 9SZM3.9RV	6-A-52	205	-79	15	9856	202	-61	15	9911
653	WS5 9SZM3.9RD	6-A-53	-325	96	11	9968	-324	111	10	.9984
654	WS5.9SZM3 9RL	6-A-54	-802	243	8	9997	-796	238	9	9998
655	WS6.1SZM3.9RL	6-A-55	19	34	28	.6553	91	3	23	8644
656	WS6.1SZM3 9RD	6-A-56	-19	11	18	.3840	-29	13	19	6739
657	WS6 1SZM3 9RV	6-A-57	17	-52	53	4460	-103	21	40	7920
658	HS8.3P20P	6-A-58	186	-293	12	.9976	190	-302	14	.9982
659	RESISTOR	6-A-59	-7	1	6	.4034	3	10	12	.3831
660	WS2S2MZ(D)	6-A-60	-10	2	6	.5294	-10	-1	7	.5071
661	BS6COTTP	6-B- 1	0	0	0	1.0000	0	0	0	1.0000
662	BS6COTTS	6-B- 2	-451	-1	16	9969	-450	-9	13	.9979
663	BS6P4TTP	6-B- 3	-30	-77	22	.9227	-26	-65	19	.8873
664	BS6P4TTS	6-B- 4	-355	-75	18	.9952	-377	-96	20	9919
665	BS6P8TTP	6-B- 5	-176	-186	59	.9378	-193	-153	49	8991
666	BS6P8TTS	6-B- 6	-172	-12	13	.9866	-194	-35	13	.9885
667	BS6COZTP	6-B- 7	0	0	1	.1492	0	0	1	.1583
668	BS6COZTS	6-B- 8	-99	13	13	.9549	-107	0	12	9713
669	BS6P4ZTP	6-B- 9	-161	-126	36	9602	-164	-99	28	9448
670	BS6P4ZTS	6-B-10	-29	-1	11	.7562	-33	-32	10	8872
671	BS6P8ZTP	6-B-11	-130	-167	46	.9448	-143	-108	31	9164
672	BS6P8ZTS	6-B-12	-68	-73	15	.9721	-86	-55	17	9254
673	BS6COMZP	6-B-13	-123	-41	31	.9104	-133	-14	27	9051
674	BS6COMZS	6-B-14	-57	-30	25	8165	-72	-17	21	8140
675	BS6COMFP	6-B-15	-52	-32	23	.8373	-42	-20	33	.4406

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG: SENSITIVITY/100%, VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG: SENSITIVITY/100%, VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
676	B56COMFS	6-B-16	0	-8	11	3467	-11	0	11	7486
677	B56P8MFP	6-B-17	-28	-29	8	9568	-37	-13	11	7997
678	B56P8MFS	6-B-18	40	116	34	8856	20	-67	32	8134
679	B56CDF1P	6-B-19	-3	-69	45	6708	-158	-25	27	4224
680	B56CDF1S	6-B-20	-92	-4	8	9836	-93	-11	10	9734
681	B56P6F1P	6-B-21	39	-34	14	8371	29	-25	17	8097
682	B56P6F1S	6-B-22	34	-14	6	9132	28	-16	10	6754
683	B56S4[illegible]P	6-B-23	-112	28	41	7437	-112	58	33	[illegible]
684	B56S4TTS	6-B-24	-302	71	18	9905	312	62	22	9903
685	B16P2[illegible]	6-B-25	-16	-10	15	5903	-34	25	18	8051
686	B56S8TTS	6-B-26	0	0	0	1 0000	0	0	0	1 0000
687	B56S42TP	6-B-27	-131	23	35	8417	-151	55	29	9494
688	B56S42TS	6-B-28	-134	46	26	9051	-141	52	15	9822
689	B56S82TP	6-B-29	-70	24	28	7197	-99	83	32	9240
690	B56S82TS	6-B-30	-43	32	9	9239	-38	38	7	9812
691	B56S8MFP	6-B-31	0	0	0	1 0000	0	0	0	1 0000
692	B56S8MFS	6-B-32	81	3	41	6594	57	60	34	7110
693	B56S6F1P	6-B-33	34	-1	20	5817	27	14	18	5327
694	B56[illegible]6F1S	6-B-34	44	16	7	9651	47	17	6	9289
695	B56CDHHRH	6-B-35	-225	20	10	9944	-209	14	12	9906
696	B56CDHHRD	6-B-36	163	-33	12	9848	149	-20	16	9769
697	B56CDHHRV	6-B-37	81	-8	14	9252	80	-10	13	9452
698	B56P7[illegible]IRV	6-B-38	0	0	0	1 0000	0	0	0	1 0000
699	B56P7[illegible]IRD	6-B-39	57	3	12	9044	73	1	13	9272
700	B56P7[illegible]IRH	6-B-40	105	-9	10	9772	153	-9	15	9792
701	B56P[illegible]IFRV	6-B-41	13	18	12	7687	40	30	4	8250
702	B56P[illegible]IFRD	6-B-42	-379	80	15	9953	-375	65	9	9985
703	B56P[illegible]FRH	6-B-43	38	-1	11	8465	75	-10	15	9035
704	B56P[illegible]3FFRV	6-B-44	12	21	8	8824	25	40	9	9288
705	B56P13FFRD	6-B-45	-156	57	13	9804	-129	82	14	9880
706	B56P13FFRH	6-B-46	7	80	18	9314	-26	-68	14	9391
707	B56S7[illegible]RH	6-B-47	56	5	10	9296	53	-5	8	9540
708	B56S7[illegible]RD	6-B-48	-69	-13	19	8773	-9	37	26	6656
709	B56S7[illegible]IRV	6-B-49	61	4	28	7017	47	22	24	6432
710	B56S1[illegible]IFRH	6-B-50	-86	46	13	9912	206	39	7	9963
711	B56S1[illegible]IFRD	6-B-51	400	52	17	9960	392	56	18	9942
712	B56S1[illegible]IFRV	6-B-52	-58	-28	11	9544	-74	-24	9	9616
713	B56S13FFRH	6-B-53	-22	104	19	9541	5	-26	24	9540
714	B56S13FFRD	6-B-54	9	-39	12	8825	11	-19	9	8332
715	B56S13FFRV	6-B-55	-184	-91	19	9861	-192	-34	15	9838
716	M36[illegible]S4P[illegible]	6-B-56	36	2	5	9549	35	-4	8	8981
717	M36S4P[illegible]	6-B-57	-627	82	10	9993	-623	83	11	9994
718	M32 [illegible]S9[illegible]	6-B-58	-358	181	8	9987	-358	187	13	9983
719	M32 [illegible]P SPIC[illegible]	6-B-59	-435	14	18	9959	-500	-14	28	9922
720	RES[illegible]R	6-B-60	84	34	11	9773	91	25	13	9422
721	APMM36C1PA	5-1	-183	192	67	9618	-230	160	51	9555
722	APMM36C2PA	5-2	-888	-42	24	9983	-896	-68	17	9990
723	APMM36C3PA	5-3	-1010	-206	30	9983	-971	-202	21	9987
724	APMM36C4PA	5-4	-404	-157	15	9981	-401	-146	4	9998
725	APMM36C5PA	5-5	-411	-135	21	9957	-427	-149	18	9952
726	APMM36P3PA4	5-6	-401	-179	3	9999	-411	-182	6	9993
727	APMM36C1PF	5-7	-364	-205	6	9996	-366	-206	5	9996
728	APMM36C2PF	5-8	-417	-243	7	9997	-421	-250	11	9984
729	APMM36C3PF	5-9	-724	-512	7	9999	-724	-510	6	9998
730	APMM36C4PF	5-10	-547	-558	8	9999	-572	-570	12	9993
731	APMM36C5PF	5-11	20	-287	5	9996	16	-291	7	9992
732	APMM36P1PFO 5	5-12	-438	-251	3	9999	-448	-255	7	9994
733	APMM36P3PFO 5	5-13	-469	-270	3	9999	-483	-273	9	9991
734	APMM36P5PFO 5	5-14	-617	-357	3	9999	-627	-357	6	9997
735	APMM36RLPF	5-15	-682	-438	4	9999	-698	-436	11	9994
736	APMM36RDPF	5-16	-291	-285	3	9999	-301	-291	9	9987
737	APMM36RHPF	5-17	303	7	14	9948	310	-6	15	9848
738	APMM36P3PF2	5-18	-435	-230	11	9992	-458	-234	22	9942
739	APMM36P3PF4	5-19	-431	-209	6	9998	-437	-216	8	9990
740	M35 3P[illegible]1P	5-20	-392	-191	4	9998	-404	-198	9	9987
741	M35 3P[illegible]5P	5-21	-412	-181	8	9995	-418	-181	14	9971
742	M35 3P[illegible]2P	5-22	-328	-190	62	9622	-324	-185	44	9580
743	M38 6P[illegible]1 7P	5-23	-208	-198	4	9998	-216	-200	5	9992
744	APMZ33C315	5-24	28	-12	5	9618	-33	-15	7	9018
745	APMZ33C308	5-25	254	37	3	9997	250	30	7	9980
746	APMZ33C300(R)	5-26	2	-2	2	6261	6	-1	4	5387
747	APMZ33C293	5-27	-704	-125	7	9998	-718	-128	10	9994
748	APMZ33RVMM	5-28	4	30	3	9895	-4	25	2	9944
749	APMZ33RDMM	5-29	0	0	1	0828	0	0	0	1 0000
750	APMZ33RLMM	5-30	-245	-103	5	9993	-255	-105	10	9954

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
751	APMZ33RLMA	5- -31	0	0	1	0505	0	0	0	1982
752	APMZ33RDMA	5- -32	-662	-147	3	9999	-668	-142	3	9999
753	APMZ33RVMA	5- -33	-44	30	8	9369	-45	26	9	9573
754	APZZ38C2PA	5- -34	-1662	-48	9	9999	-1652	-36	12	9999
755	APZZ38C3PA	5- -35	0	0	0	1 0000	0	0	0	1 0000
756	APZZ38C4PA	5- -36	0	0	0	1 0000	0	0	0	1 0000
757	APZZ38P3PA 5	5- -37	-653	-80	5	9999	-658	-76	6	9998
758	APZZ38P3PA2	5- -38	-485	-98	7	9996	-478	-96	13	9979
759	APZZ38P3PA4	5- -39	-411	-97	5	9997	-410	-111	10	9984
760	APZZ38RHPA	5- -40	30	56	14	9422	-2	69	9	9782
761	APZZ38RDPA	5- -41	0	0	0	1 0000	0	0	0	1 0000
762	APZZ38RLPA	5- -42	-1150	-124	7	9999	-1160	-116	6	9999
763	APMZ39C315	5- -43	-639	-42	7	9997	-670	-55	17	9984
764	APMZ39C308	5- -44	-615	-49	5	9998	-638	-67	8	9996
765	APMZ39C300	5- -45	-582	-66	5	9999	-592	-72	4	9999
766	APMZ39C293	5- -46	-692	-110	5	9999	-704	-113	5	9998
767	APMZ42C315	5- -47	-626	-54	8	9997	-669	-72	12	9991
768	APMZ42C308	5- -48	-608	-69	6	9998	-633	-82	6	9997
769	APMZ42C300(R)	5- -49	26	-29	20	6427	8	-5	34	1833
770	APMZ42C293	5- -50	-624	-123	4	9999	-642	-126	6	9997
771	B16P3MMRH	5- -51	81	45	10	9811	88	35	10	9644
772	B16P3MMRD	5- -52	119	26	17	9628	104	1	22	9031
773	B16P3MMRV	5- -53	46	-102	75	5862	11	4	100	2450
774	H23P17MFP(U)	5- -54	-186	-94	41	9449	-142	-108	37	8890
775	H23 9P16MFP(HSU)	5- -55	473	-58	8	9992	459	-57	8	9994
776	H23 9P16MFP(HSL)	5- -56	-572	-10	7	9997	-551	-14	9	9993
777	B24P10 5MMRH	5- -57	-6	17	6	8393	-21	14	5	9441
778	B24P10 5MMRD	5- -58	120	28	9	9896	134	20	19	9501
779	B24P10 5MMRV	5- -59	113	32	15	9689	146	12	17	9671
780	W36P2MZ(D)	5- -60	-11	3	4	7727	-11	-1	7	5655
781	APMM44C1PA	5-A- 1	0	0	0	1 0000	0	0	0	1 0000
782	APMM44C2PA	5-A- 2	-1057	-250	17	9995	-1045	-250	27	9981
783	APMM44C3PA	5-A- 3	-1051	-348	9	9999	-1038	-347	12	9996
784	APMM44C4PA	5-A- 4	-562	316	20	9969	-567	327	17	9990
785	APMM44C5PA	5-A- 5	-474	-188	4	9999	-496	-192	7	9995
786	APMM44P3PA4	5-A- 6	-464	-228	8	9996	-474	-231	9	9990
787	APMM44C1PF	5-A- 7	-437	-241	7	9997	-435	-245	5	9996
788	APMM44C2PF	5-A- 8	-466	-273	4	9999	-476	-279	8	9993
789	APMM44C3PF	5-A- 9	-772	-530	7	9999	-774	-525	5	9999
790	APMM44C4PF	5-A-10	-630	-599	8	9999	-652	-604	13	9994
791	APMM44C5PF	5-A-11	-5	-257	5	9994	-15	-255	9	9981
792	APMM44P1PFO 5	5-A-12	-468	-271	4	9999	-479	-276	7	9994
793	APMM44P3PFO 5	5-A-13	-504	-292	5	9999	-518	-296	8	9994
794	APMM44P5PFO 5	5-A-14	-654	-390	3	9999	-663	-390	5	9999
795	APMM44RLPF	5-A-15	-724	-481	4	9999	-739	-481	9	9997
796	APMM44RDPF	5-A-16	-262	-277	4	9998	-274	-278	8	9988
797	APMM44RHPF	5-A-17	349	6	37	9742	355	44	62	9261
798	APMM44P3PF2	5-A-18	-483	-245	14	9990	-502	-261	22	9951
799	APMM44P3PF4	5-A-19	-476	-235	9	9996	-457	-241	15	9971
800	M43 3P11 1P	5-A-20	-465	-217	11	9993	-462	-222	14	9974
801	M43 3P11 5P	5-A-21	-429	-228	7	9997	-441	-236	9	9988
802	M43 3P12 0P	5-A-22	-421	-244	12	9991	-403	-244	18	9955
803	M41 4P11 7P	5-A-23	-516	-220	4	9999	-526	-221	5	9997
804	APMZ46C292	5-A-24	-696	-127	6	9998	-726	-141	8	9997
805	APMZ46C285	5-A-25	-717	-121	51	9899	-638	-141	27	9948
806	APMZ46C277	5-A-26	-536	-169	7	9997	-536	-168	5	9998
807	APMZ46C270	5-A-27	-450	-215	16	9984	-455	-208	8	9991
808	APZZ46C3PA	5-A-28	-1488	-188	7	9999	-1491	-179	6	9999
809	APZZ46C3PF	5-A-29	0	0	0	1982	0	-1	1	3287
810	APZZ52C3SF	5-A-30	-702	336	6	9998	-715	329	8	9998
811	ASZZ52C3SA	5-A-31	0	0	0	2580	0	0	1	2195
812	APMZ62C101	5-A-32	-491	-172	6	9998	-494	-172	7	9995
813	APMZ62C094	5-A-33	-446	-154	15	9982	-457	-158	14	9973
814	APNZ62C086(R)	5-A-34	25	13	44	2516	25	-1	35	2220
815	APMZ62C078	5-A-35	0	0	0	1 0000	0	0	0	1 0000
816	APMZ62RLZA	5-A-36	0	0	0	1 0000	0	0	0	1 0000
817	APMZ62RDZA	5-A-37	11	49	45	5546	-23	15	27	4828
818	APMZ62RHZA	5-A-38	3	36	38	4821	-18	16	22	5192
819	ASMM66C1SF	5-A-39	-734	65	11	9994	-736	66	11	9995
820	ASMM66C2SF	5-A-40	-949	165	10	9997	-941	164	8	9999
821	ASMM66C3SF	5-A-41	-969	224	10	9997	-946	221	8	9999
822	ASMM66C4SF	5-A-42	-628	153	17	9978	-599	165	9	9996
823	ASMM66C5SF	5-A-43	-569	164	8	9994	-575	157	14	9990
824	M59 5P 5P(AC)	5-A-44	-472	-10	6	9996	-479	-10	8	9993
825	M59 5P 5P(FCO)	5-A-45	-267	-7	4	9996	-270	-8	5	9992

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
826	M59 9P SP(FC1)	5-A-46	-326	-5	4	9996	-327	-10	7	9990
827	M48S5W(BMSU)	5-A-47	36	85	28	9031	-4	30	38	3952
828	B56P8MMS(BM)	5-A-48	-65	54	14	9235	-68	30	11	9626
829	M48S5W(BMSL)	5-A-49	0	0	0	1 0000	0	0	0	1 0000
830	B56P8MZS(BM)	5-A-50	-68	-154	38	9430	-80	-99	30	8808
831	B40S9MMP(C)	5-A-51	575	64	5	9999	564	62	16	9977
832	B64P8MMS(BM)	5-A-52	26	2	12	6929	-3	-6	16	1727
833	H23 9S19S	5-A-53	96	-26	15	9424	113	-18	12	9764
834	B24S9 5MMRV(C)	5-A-54	-70	-21	5	9700	-100	-22	10	9738
835	B24S9 5MMRD(C)	5-A-55	-118	-79	9	9888	-95	-4	20	9034
836	B24S9 5MMRH(C)	5-A-56	9	-36	9	9236	7	-45	9	9480
837	H23 9S16P(HSU)	5-A-57	362	72	9	9588	334	53	7	9987
838	H23 9S16P(HSL)	5-A-58	-613	17	11	9992	-628	16	14	9988
839	H23P17MFP(L)	5-A-59	-141	-97	6	9982	-145	-100	5	9970
840	W44P2MZ(D)	5-A-60	-19	0	8	7390	-11	-3	8	4468
841	M23 9S4 SP(HSC)	5-B-1	-127	-106	5	9985	-128	-109	8	9938
842	M23 9S4 SP(HSI)	5-B-2	13	129	19	9739	12	142	20	9759
843	H24 1P8 SP(HSL)	5-B-3	289	89	76	9004	412	102	82	9023
844	H24 1P8 SP(HSU)	5-B-4	-500	-153	9	9994	513	-162	3	9999
845	H24 1P13 9P(C)	5-B-5	17	44	5	9888	5	40	10	9120
846	H29 3P17 8RH	5-B-6	25	45	8	9730	13	41	9	9279
847	H29 3P17 8RD	5-B-7	-872	-92	5	9999	-885	-95	3	9999
848	H29 3P17 8RL	5-B-8	-170	-176	6	9992	-171	-179	8	9974
849	H31 9P14S(C)	5-B-9	-49	-131	7	9970	-52	-134	5	9976
850	B32P8F(RH(C)	5-B-10	54	35	6	9859	39	23	12	8257
851	B32P8F(RD(C)	5-B-11	-60	-13	4	9928	-69	-16	7	9725
852	B32P8F(RV(C)	5-B-12	-155	8	4	9984	-166	6	7	9958
853	M31 8P11W	5-B-13	-247	-63	5	9993	-256	-75	12	9939
854	M31 8P10 SP	5-B-14	-293	-142	5	9996	-298	-154	6	9990
855	H37S20P	5-B-15	-256	221	4	9998	-265	-227	8	9984
856	H37S20P(CU)	5-B-16	-220	218	4	9996	-221	214	7	9993
857	H37S20P(CL)	5-B-17	-196	216	7	9984	-203	207	14	9971
858	H37S19P(C)	5-B-18	-182	230	9	9977	-208	214	15	9966
859	H37 4S20P(C)	5-B-19	243	228	7	9988	-235	222	9	9989
860	B40S8 5MFRV(BB)	5-B-20	4	32	12	8568	36	32	12	8593
861	B40S8 5MFRD(BB)	5-B-21	-144	83	11	9862	-143	68	13	9898
862	B40S8 5MFRH(BB)	5-B-22	-186	63	8	9949	-213	45	13	9925
863	H44S20P(LP	5-B-23	-181	267	14	9959	-160	262	13	9980
864	H45 4S21P(C)	5-B-24	-395	312	4	9998	-393	308	8	9996
865	H45 4S21P(C)	5-B-25	-399	302	6	9996	-401	293	11	9994
866	H41P20P(C)	5-B-26	-2	79	6	9925	8	78	7	9885
867	H47 9P9P(C)	5-B-27	459	-186	6	9995	451	-199	10	9993
868	B48P6 2MMRV(BB	5-B-28	-86	17	15	9204	-75	-3	12	9369
869	B48P8 2MMRD(BB)	5-B-29	0	0	0	1982	0	0	1	2004
870	B48P8 2MMRH(BB)	5-B-30	66	-42	14	9119	16	-38	19	7993
871	H42 6P20P(C)	5-B-31	0	0	1	2002	0	0	1	2500
872	B48P12MMP(C1)	5-B-32	59	-4	10	9287	50	3	10	9143
873	B48P12MMP(C0)	5-B-33	83	-35	24	8213	98	19	12	9607
874	B48D0(P(C)	5-B-34	50	-3	18	7772	67	6	14	8939
875	L55 9F2P(C	5-B-35	0	0	0	1 0000	0	0	0	1 0000
876	H48 5P10P(CO)	5-B-36	0	0	0	1 0000	0	0	0	1 0000
877	H51P14P(CU)	5-B-37	150	-288	5	9994	131	-294	8	9993
878	H51P14P(CL)	5-B-38	364	-243	4	9997	350	-249	6	9997
879	H49P19P(C)	5-B-39	-241	-296	11	9990	-232	-304	8	9990
880	H51P18P(C)	5-B-40	-196	-272	5	9997	-209	-275	7	9991
881	M56P8W(BMSUO)	5-B-41	-133	-66	51	8495	-150	-70	45	8175
882	M56P8W(BMSLO)	5-B-42	-99	-90	51	8465	-88	-60	39	7321
883	M56P8W(BMSUO)	5-B-43	-105	-67	23	9532	-205	-86	46	8844
884	M56P8W(BMSLO)	5-B-44	0	0	0	1 0000	0	0	0	1 0000
885	RESISTOR	5-B-45	5	1	9	1386	6	0	7	2557
886	M40S3W(BMSU)	5-B-46	-292	-67	35	9744	-294	-18	34	9665
887	B56P8MMP(BM)	5-B-47	-51	-164	39	9407	-82	-114	36	8720
888	M48S5W(BMSL)	5-B-48	0	0	0	1 0000	0	0	0	1 0000
889	B56P8M2P(BM)	5-B-49	-34	-71	22	9185	-35	-41	17	8071
890	M31 8P10W	5-B-50	-295	-143	10	9986	-293	-156	8	9979
891	H16S12P(CU)	5-B-51	-61	53	5	9908	-71	51	10	9834
892	H16S12P(CM)	5-B-52	-64	57	5	9888	-84	55	13	9749
893	H16S12P(CL)	5-B-53	-100	60	20	9139	-114	59	14	9810
894	H14S12P(C)	5-B-54	-1	-14	5	8684	-6	-17	7	7971
895	H10 6S8S(C)	5-B-55	-77	24	7	9759	-86	40	8	9893
896	H12P14P(C)	5-B-56	-42	-18	3	9910	-48	-23	8	9338
897	H12P14P(C)	5-B-57	-15	-21	4	9654	-20	-25	4	9607
898	B16P8P(C)	5-B-58	131	-5	5	9959	124	-15	11	9836
899	H73S20P(C	5-B-59	-172	104	4	9987	-170	102	6	9984
900	RESISTOR	5-B-60	-3	0	5	0668	2	1	3	2587

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG: SENSITIVITY/100% VERTICAL	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG: SENSITIVITY/100% VERTICAL	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
901	B64COZZP	4- - 1	-87	-3	21	.8869	-87	12	15	.9418
902	B64COZZS	4- - 2	-85	-11	11	.9639	-74	8	13	9336
903	B64P4ZZP	4- - 3	-44	-47	15	9356	-58	-29	19	7810
904	B64P4ZZS	4- - 4	-212	-61	19	9868	-227	-42	22	9753
905	B64P8ZZP	4- - 5	-101	-61	9	9906	-125	-47	15	9631
906	B64P8ZZS	4- - 6	-105	-70	19	9694	-96	-34	22	8780
907	B64COMZP	4- - 7	-131	-25	25	9360	-115	8	28	8828
908	B64COMZS	4- - 8	-50	14	7	9448	-46	12	8	9529
909	B64P4MZP	4- - 9	-104	-46	19	9573	-116	-23	23	9068
910	B64P4MZS	4- -10	-136	-62	17	9797	-151	-35	26	9224
911	B64P8MZP	4- -11	-7	-39	20	7653	-20	-25	22	5291
912	B64P8MZS	4- -12	-132	-71	8	9959	-149	-54	9	9895
913	B64COMFP	4- -13	-46	-3	16	7886	-27	3	14	6663
914	B64COMFS	4- -14	-126	-6	29	8934	-62	2	15	8835
915	B64P2MFP	4- -15	-65	-14	15	9112	-41	-3	12	8180
916	B64P2MFS	4- -16	0	0	0	1.0000	0	0	[illegible]	1225
917	B64COFIP	4- -17	-78	-9	11	9584	-70	2	12	9347
918	B64COFIS	4- -18	-77	-3	9	.9674	-71	-3	10	9547
919	B64P6FIP	4- -19	35	-13	15	6859	31	-17	17	7501
920	B64P6FIS	4- -20	30	-49	18	8395	38	-28	16	8736
921	B64S4ZZP	4- -21	-111	4	20	9268	-86	28	17	9425
922	B64S4ZZS	4- -22	-134	19	17	9594	-105	35	10	9855
923	B64S8ZZP	4- -23	-142	44	16	9654	-124	64	13	9874
924	B64S8ZZS	4- -24	-63	-1	16	8672	-36	38	14	9207
925	B64S4MZP	4- -25	-140	18	22	.9361	-114	35	18	9591
926	B64S4MZS	4- -26	-202	18	22	9692	-175	43	23	9696
927	B64S8MZP	4- -27	-123	12	28	8824	-115	41	22	9482
928	B64S8MZS	4- -28	-171	34	18	9715	-150	59	15	9863
929	B64S4MFP	4- -29	-131	13	18	9539	-108	27	21	9363
930	B64S4MFS	4- -30	-106	13	22	8974	-73	38	22	.8997
931	B64S6FIP	4- -31	-88	10	18	8971	-68	24	19	8964
932	B64S6FIS	4- -32	-104	31	16	9383	-80	43	17	9479
933	B64COHHRH	4- -33	5	-5	9	1968	9	0	7	4808
934	B64COHHRD	4- -34	-8	8	8	4868	0	10	9	5487
935	B64COHHRV	4- -35	12	4	6	7730	22	4	7	7684
936	B64P7IIRV	4- -36	74	-33	12	9361	51	-24	20	8368
937	B64P7IIRD	4- -37	7	-1	3	7184	15	-2	5	8199
938	B64P7IIRH	4- -38	-26	29	22	9464	195	43	24	.9582
939	B64P11FIRV	4- -39	-448	102	16	9962	-457	98	10	.9990
940	B64P11FIRD	4- -40	67	-9	10	9437	119	-26	18	9590
941	B64P11FIRH	4- -41	-13	66	107	2541	-233	-55	109	6534
942	B64P13FFRV	4- -42	-18	83	8	9878	-4	101	13	.9785
943	B64P13FFRD	4- -43	-240	116	22	9792	-199	139	22	9882
944	B64P13FFRH	4- -44	29	-30	14	7943	7	1	12	0747
945	B64S7IIRH	4- -45	117	7	10	9823	59	-18	7	.9788
946	B64S7IIRD	4- -46	91	8	28	8378	56	-12	11	9370
947	B64S7IIRV	4- -47	-42	-14	10	9126	11	3	10	.3334
948	B64S11FIRH	4- -48	22	106	30	9167	106	97	24	9282
949	B64S11FIRD	4- -49	-489	-37	27	.9933	-431	-47	29	9879
950	B64S11FIRV	4- -50	-10	-66	[illegible]	8698	-60	-65	12	9552
951	B64S13IIRH	4- -51	0	0	0	1 0000	0	0	0	1.0000
952	B64S13IIRD	4- -52	-239	-14	24	9775	-225	1	21	9800
953	B64S13IIRV	4- -53	-38	-15	10	9060	-27	0	6	8940
954	H61.2S20P(CU)	4- -54	-457	331	8	9994	-450	330	9	9996
955	M59S8P(C)	4- -55	-438	203	6	9995	-421	206	4	9999
956	APM246C112	4- -56	-439	-95	6	9997	-420	-71	11	9982
957	APM246C105	4- -57	-420	-112	14	9979	-411	-112	8	.9988
958	APM246C97	4- -58	-486	-142	14	.9985	-485	-152	15	9974
959	APM246C90	4- -59	-145	-138	23	9831	-179	-116	9	9949
960	H60P19(D)	4- -60	-16	5	7	6485	-12	-1	6	.6584
961	M61P14P(Q)	4-A- 1	0	0	0	1 0000	0	0	0	1 0000
962	M61P11 1P	4-A- 2	-452	-263	5	9999	-458	-266	5	9997
963	M61P10W	4-A- 3	-412	-223	10	9993	-425	-224	8	9992
964	M61P6W	4-A- 4	-403	-126	9	.9991	-400	-122	7	9992
965	M61P2W	4-A- 5	-394	-29	8	9991	-394	-32	7	9992
966	M61COW	4-A- 6	0	0	0	1 0000	0	0	0	1 0000
967	M61S2W	4-A- 7	-380	31	5	9995	-380	31	7	9991
968	M61S4W	4-A- 8	-314	67	6	9990	-310	66	7	9991
969	M61S6W	4-A- 9	-435	121	22	9924	-395	144	21	9956
970	M61S8W	4-A-10	-365	152	4	9997	-361	152	5	9997
971	M61S9 SP	4-A-11	-386	186	3	9998	-371	191	4	9999
972	M61S10W	4-A-12	381	207	6	9994	-376	206	7	9996
973	M61S10 SP	4-A-13	-372	201	17	9945	-349	219	9	9993
974	M61S11 1P	4-A-14	-395	259	6	9994	-628	-11	178	8418
975	M61S12W	4-A-15	-429	272	9	9989	-421	273	9	9995

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
976	M61S12 SP	4-A-16	0	0	0	1113	1	0	1	2985
977	M61S13W	4-A-17	-469	269	31	9896	-425	291	38	9923
978	M61S14P	4-A-18	-422	306	21	9953	-436	299	9	9995
979	Z61COW	4-A-19	-854	3	10	9997	-849	7	9	9997
980	Z61S2W	4-A-20	-452	25	5	9996	-452	23	5	9997
981	Z61S4W	4-A-21	-525	63	6	9996	-522	62	8	9996
982	Z61S6W	4-A-22	-1048	177	14	9995	-1050	182	16	9995
983	Z61S8W	4-A-23	-859	186	6	9999	-857	191	8	9998
984	Z61S9W	4-A-24	-893	208	6	9999	-879	216	6	9999
985	Z61S10W	4-A-25	-1164	274	50	9946	-1169	302	19	9995
986	Z61S10 SP	4-A-26	-1370	303	103	9941	-1398	360	37	9987
987	Z61S10 9P	4-A-27	-1336	313	55	9957	-1345	360	25	9994
988	Z61P6W	4-A-28	-942	109	127	9534	-1080	127	29	9985
989	Z61P10W	4-A-29	-1183	55	53	9948	-1185	92	22	9993
990	W61SZM3 9P	4-A-30	-1398	329	62	9944	-1425	370	24	9995
991	W61SMZ0 1P	4-A-31	-924	287	51	9915	-928	318	21	9992
992	H56 1S21P	4-A-32	-977	339	51	9923	-984	365	21	9993
993	H61S3W	4-A-33	658	66	8	9997	661	65	10	9994
994	H61P5W	4-A-34	645	-68	5	9998	654	76	5	9999
995	H61S5W	4-A-35	588	103	7	9997	601	102	7	9997
996	H61S7W	4-A-36	508	145	2	9999	517	150	5	9997
997	H61P7W	4-A-37	69	24	1	9996	106	41	3	9978
998	H61S9W	4-A-38	-192	310	6	9995	184	310	3	9999
999	H61S W	4-A-39	427	-222	4	9998	425	-224	4	9999
1000	H61P11W	4-A-40	504	-151	4	9998	501	-150	3	9999
1001	H61S13W	4-A-41	346	257	11	9991	358	266	13	9975
1002	H61S14W	4-A-42	270	279	4	9999	280	278	4	9997
1003	H61P14W	4-A-43	255	-268	9	9985	220	-264	22	9947
1004	H61S15W	4-A-44	133	289	4	9998	140	293	5	9995
1005	H61S16 SP	4-A-45	-35	276	7	9991	-26	273	6	9994
1006	H61P16 SP	4-A-46	-26	-264	7	9991	-20	-265	5	9996
1007	H6 S18W	4-A-47	182	772	776	5142	884	316	453	6173
1008	H61S20WL	4-A-48	-385	316	5	9997	-376	316	7	9997
1009	H61P20WL	4-A-49	-407	-333	13	9991	-400	-326	3	9999
1010	H57 9P9S(C)	4-A-50	138	-118	15	9809	124	-130	12	9945
1011	B56P81IP(C)	4-A-51	98	-45	16	9325	76	-20	15	9362
1012	ASMZ76C098	4-A-52	-509	143	18	9964	-471	137	10	9992
1013	ASMZ76C105	4-A-53	-544	103	9	.9992	-540	104	9	9994
1014	ASMZ76C112	4-A-54	-615	90	7	.9996	-612	97	8	9996
1015	ASMM66C5SA	4-A-55	-684	476	8	.9997	-660	498	19	9998
1016	ASMM66C4SA	4-A-56	789	507	6	9995	-782	525	7	9999
1017	ASMM66C3SA	4-A-57	-776	455	11	9995	-772	469	6	9999
1018	ASMM66C1SA	4-A-58	-1012	287	1707	.0489	104	10	878	2460
1019	ASMM66C1SA	4-A-59	-536	288	6	9997	-528	294	6	9999
1020	W6AS2MZ(D)	4-A-60	-8	1	5	5049	-7	-2	5	4437
1021	B72COHHRH	4-B-1	-55	0	8	9537	-60	4	10	9417
1022	B72COHHRD	4-B-2	-79	11	11	9515	-65	8	12	9305
1023	B72COHHRV	4-B-3	-116	4	5	9945	-121	4	7	9926
1024	B72P12 SFIRV	4-B-4	147	-106	11	9884	127	-97	13	9911
1025	B72P12 SFIRD	4-B-5	-163	47	10	9899	-188	34	7	9570
1026	B72P12 SFIRH	4-B-6	44	-20	13	.8168	112	-10	8	9875
1027	B72S12 SFIRH	4-B-7	65	90	19	9642	108	84	14	9679
1028	B72S12 SFIRD	4-B-8	-263	95	10	9976	-235	-104	10	9949
1029	B72S12 SFIRV	4-B-9	-31	-51	35	7334	0	-41	35	5553
1030	Z62 5COW	4-B-10	-688	0	6	9998	-691	4	6	9998
1031	Z65COW	4-B-11	-623	1	7	9997	-613	6	5	9998
1032	Z67COW	4-B-12	-627	0	4	9999	-631	-3	6	9997
1033	Z69COW	4-B-13	-640	-9	13	9990	-644	0	5	9999
1034	Z71COW	4-B-14	-611	8	7	9997	-610	-1	6	9998
1035	Z63S6W	4-B-15	-721	125	6	9998	-711	129	6	9999
1036	Z63S11W	4-B-16	1	-1	2	0572	0	0	0	1 0000
1037	M63COW	4-B-17	-428	-20	16	9966	-403	1	5	9996
1038	M63S11 1P	4-B-18	-470	258	7	9994	-453	261	3	9999
1039	M63S14P	4-B-19	-521	321	11	9990	-505	325	4	9999
1040	M65COW	4-B-20	-402	-2	10	9983	-406	7	4	9997
1041	M65S11 1P	4-B-21	-450	258	9	9991	-388	274	32	9938
1042	M65S14P	4-B-22	-523	314	22	.9957	-535	333	8	9998
1043	M65P14P	4-B-23	-515	-326	14	9992	-534	-313	10	9992
1044	M65P11 1P	4-B-24	-453	-279	9	9996	-461	-271	2	9999
1045	M67COW	4-B-25	0	0	0	1.0000	0	0	0	1 0000
1046	M67S11 1P	4-B-26	-425	246	8	9991	-427	251	4	9999
1047	M67S14P	4-B-27	-240	82	364	1322	-445	285	30	9953
1048	M69COW	4-B-28	0	0	0	1 0000	0	0	0	1 0000
1049	M69S11 1P	4-B-29	-507	313	125	.8805	-422	245	5	9998
1050	M69S14P	4-B-30	-560	379	218	.7724	-434	267	15	9988

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1051	M69P11 1P	4-B-31	-468	41	51	9693	-435	21	[illegible]	9993
1052	M69P14P	4-B-32	0	0	0	1.0000	0	0	0	1 0000
1053	M71COW	4-B-33	-394	7	7	.9993	-394	1	6	9995
1054	M71S10 1P	4-B-34	-397	227	8	9991	-386	237	5	9998
1055	M71S13P	4-B-35	3432	-1341	1207	.7625	-480	208	990	1575
1056	M63S8 5P	4-B-36	-376	141	4	9997	-370	145	5	9997
1057	I69COP	4-B-37	42	1	3	.9906	67	3	5	9852
1058	I65COP	4-B-38	-6	3	4	.6059	5	3	3	6437
1059	F65CONA	4-B-39	0	0	0	1.0000	0	0	0	0000
1060	H63COP	4-B-40	427	-6	6	.9995	427	-3	5	9997
1061	H65COP	4-B-41	840	-5	153	.9256	734	-107	146	9261
1062	H65S13W	4-B-42	320	234	3	9999	328	235	6	9992
1063	H67COP	4-B-43	0	0	0	1.0000	0	0	0	1 0000
1064	H69P13W	4-B-44	307	-225	4	.9997	303	-226	3	9999
1065	H69COP	4-B-45	0	0	0	1 0000	0	0	0	1 0000
1066	H69S13W	4-B-46	0	0	0	1 0000	0	0	0	1 0000
1067	H71COP	4-B-47	604	-2	10	9993	599	-5	10	9992
1068	I61COP	4-B-48	427	-8	5	9997	420	-2	8	9991
1069	F61CONA	4-B-49	-22	2	7	8225	-16	2	5	6630
1070	B64S6 5MMRV	4-B-50	-40	23	16	7473	-48	30	15	9039
1071	B64S6 5MMRD	4-B-51	-136	18	10	9841	-130	25	13	9801
1072	B64S6 5MMRH	4-B-52	-74	-26	262	1851	-664	-214	263	7169
1073	H65S20P(CU)	4-B-53	-321	336	8	.9993	-313	345	9	9996
1074	H65S20P(ACL)	4-B-54	-297	313	7	.9992	-298	323	8	9996
1075	H65S20P(FCL)	4-B-55	-266	286	3	.9999	-256	294	3	9999
1076	ASMZ76C090	4-B-56	-374	133	3	.9998	-367	134	3	9999
1077	ASMZ62C65	4-B-57	-578	-183	7	.9998	-576	-182	4	9998
1078	ASMZ62C60	4-B-58	380	-1119	1838	2369	189	10	1641	2442
1079	ASMZ62C55	4-B-59	-452	-124	9	9993	-457	-143	4	9997
1080	H68S19P(D)	4-B-60	3	-7	5	.6114	-38	-18	15	7294
1081	B80C0ZZP	3- - 1	-162	7	15	.9780	-143	2	9	9914
1082	B80C0ZZS	3- - 2	280	-4	7	9983	272	-6	2	9999
1083	B80P3ZZP	3- - 3	-91	-6	4	.9958	-96	1	2	9991
1084	B80P3ZZS	3- - 4	164	-8	4	.9986	166	-10	3	9994
1085	B80P8ZZP	3- - 5	-29	-22	11	8949	-49	-14	1	9976
1086	B80P8ZZS	3- - 6	94	-25	7	.9823	84	-24	2	9989
1087	B80C0MZP	3- - 7	-29	6	20	4978	-8	8	5	7950
1088	B80C0MZS	3- - 8	7	4	12	3082	25	1	8	8081
1089	B80P3MZP	3- - 9	-67	0	13	.9159	-47	-5	4	9793
1090	B80P3MZS	3- -10	103	-10	16	9411	87	-2	3	9975
1091	B80P8MZP	3- -11	33	-7	8	.8546	14	-1	2	.9673
1092	B80P8MZS	3- -12	28	-4	6	9046	34	1	6	9253
1093	B80C0MFP	3- -13	0	0	0	1 0000	0	0	0	1 0000
1094	B80C0MFS	3- -14	-62	15	34	5824	-20	-8	20	3178
1095	B80P9MFP	3- -15	42	4	6	.9638	39	9	5	9635
1096	B80P9MFS	3- -16	-11	-51	25	.7912	266	36	150	5824
1097	B80C0FIP	3- -17	54	-3	4	.9830	53	-1	4	9851
1098	B80C0FIS	3- -18	-178	1	18	.9750	-156	-1	7	9952
1099	B80P6FIP	3- -19	33	4	5	.9552	38	3	5	9553
1100	B80P6FIS	3- -20	-4	3	21	2292	24	-12	7	8974
1101	B80S4ZZP	3- -21	-137	14	10	.9859	-114	8	7	9914
1102	B80S4ZZS	3- -22	258	-11	15	.9911	245	-8	3	9997
1103	B80S8ZZP	3- -23	-82	12	4	9945	-84	14	4	9949
1104	B80S8ZZS	3- -24	171	-5	13	.9845	174	0	8	9954
1105	B80S4MZP	3- -25	-39	-2	6	9426	-29	2	6	9033
1106	B80S4MZS	3- -26	52	4	13	.8761	41	14	2	9904
1107	B80S8MZP	3- -27	16	-7	7	.6841	10	4	4	7340
1108	B80S8MZS	3- -28	1380	-740	1710	2570	51	-16	5	9839
1109	B80S7MFP	3- -29	15	-10	8	6422	5	-2	2	8411
1110	B80S7MFS	3- -30	-55	34	20	.7750	-23	12	11	7992
1111	B80S6FIP	3- -31	38	-10	4	.9720	34	-10	4	9721
1112	B80S6FIS	3- -32	70	6	16	.8948	59	21	14	8724
1113	B80C0NHRH	3- -33	18	-20	21	.4385	-48	-3	39	4345
1114	B80C0NHRD	3- -34	-114	5	6	.9935	-121	5	3	9988
1115	B80C0NHRV	3- -35	-65	-4	6	9809	-68	0	6	9823
1116	B80P7IIRV	3- -36	21	-5	5	8751	12	2	3	8485
1117	B80P7IIRD	3- -37	-28	17	11	7708	-23	10	8	8571
1118	B80P7IIRH	3- -38	-67	11	7	9670	-74	16	5	9902
1119	B80P11FIRV	3- -39	41	6	5	.9712	45	14	9	8961
1120	B80P11FIRD	3- -40	-31	-24	31	5902	-10	-33	9	9045
1121	B80P11FIRH	3- -41	-13	-55	6	9855	-20	-51	4	9908
1122	B80P12FFRV	3- -42	0	0	0	1 0000	0	0	0	1 0000
1123	B80P12FFRD	3- -43	19	21	7	9348	17	26	3	9850
1124	B80P12FFRH	3- -44	-37	0	13	7748	-34	-10	7	8910
1125	B80S7IIRH	3- -45	-104	-10	7	9915	-101	-11	5	9924

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINEC LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1126	B80S711RD	3- -46	0	0	0	1 0000	0	0	0	1 0000
1127	B80S711RV	3- -47	-71	34	28	7403	24	9	76	2058
1128	B80S11FIRH	3- -48	2	-1	12	2335	-9	19	10	8083
1129	B80S11FIRD	3- -49	-72	-46	7	9891	-79	-42	4	9937
1130	B80S11FIRV	3- -50	-53	-41	11	9617	-48	-48	8	9674
1131	B80S12FFRH	3- -51	-19	9	4	9031	-19	12	3	9813
1132	B80S12FFRD	3- -52	c	0	1	1887	0	0	1	1973
1133	B80S12FFRV	3- -53	-34	-23	7	9583	-30	-29	6	9499
1134	H84 5S21P(CU)	3- -54	-272	168	11	9964	-279	182	3	9996
1135	H101P20P(UC)	3- -55	-80	-16	10	9702	-71	-20	6	9816
1136	H100P20P(AC)	3- -56	-52	-28	8	9754	-55	-25	2	9962
1137	B98COMMP(C)	3- -57	22	19	10	8595	31	5	8	8496
1138	M101 3COW(C)	3- -58	-148	10	13	9800	-138	2	7	9933
1139	M101 3COW(C)	3- -59	-1	-3	6	2512	-6	-1	3	6794
1140	B80CMF(D)	3- -60	-13	2	5	6977	-6	0	4	5604
1141	M73P13P	3-A- 1	-386	71	15	.9960	-364	64	8	9991
1142	M73P12W	3-A- 2	-450	-281	11	9993	-458	-263	2	9995
1143	M73P10 1P	3-A- 3	-410	-208	13	.9987	-361	-200	25	9840
1144	M73P8W	3-A- 4	-391	-112	7	9995	-394	-117	7	9992
1145	M73P6W	3-A- 5	-355	-118	9	9990	-368	-107	7	9990
1146	M73P2W	3-A- 6	-384	-14	7	9992	-389	-10	2	9999
1147	M73COW	3-A- 7	-409	4	8	9991	-401	4	4	9997
1148	M73S2W	3 A- 8	-370	40	12	9972	-349	30	4	9998
1149	M73S4W	3-A- 9	-480	-274	9	.9996	-475	-277	4	9998
1150	M73S6W	3-A-10	-330	88	14	9950	-349	96	4	9998
1151	M73S8W	3-A-11	-336	93	11	9967	-355	114	6	9996
1152	M73S9W	3-A-12	-382	129	5	.9995	-385	133	3	.9999
1153	M73S9 5P	3-A-13	0	0	0	1 0000	0	0	0	1 0000
1154	M73S10 1P	3-A-14	-445	219	28	9898	-402	207	7	9996
1155	M73S11W	3-A-15	-443	238	4	.9998	-433	250	3	.9999
1156	M73S11 5P	3-A-16	-377	225	10	9984	-384	237	2	.9999
1157	M73S12P	3-A-17	-441	265	4	9998	-436	269	5	9999
1158	M73S12 5P	3-A-18	-503	286	15	9978	-469	290	5	9999
1159	M73S13P	3-A-19	-497	292	5	9998	-485	298	3	9999
1160	Z73COW	3-A-20	-621	19	21	.9971	-593	0	7	9997
1161	Z73S2W	3-A-21	-635	47	10	.9994	-627	40	6	9998
1162	Z73S4W	3-A-22	-532	58	13	.9983	-551	66	4	9999
1163	Z73S6W	3-A-23	-722	118	27	9960	-729	127	36	9950
1164	Z73S8W	3-A-24	-764	170	11	9994	-775	187	21	9987
1165	Z73S9W	3-A-25	-752	177	5	9999	-747	186	9	9997
1166	Z73S9 5P	3-A-26	-755	188	32	9948	-694	197	60	9912
1167	Z73S10W	3-A-27	-901	204	6	9999	-909	222	10	9998
1168	Z73S11P	3-A-28	501	-451	1647	1747	-878	226	39	9965
1169	Z73P6W	3-A-29	-714	-118	14	.9992	-729	-113	12	9992
1170	Z73P10W	3-A-30	-738	-145	21	.9985	-704	-157	10	9994
1171	W73SMZ0 1P	3 A-31	-441	193	5	9997	-430	200	2	.9999
1172	W73SMZ2 0W	3-A-32	-352	151	18	.9926	-334	148	22	9943
1173	W73SZM3 9P	3-A-33	-801	212	6	9998	-797	224	5	9999
1174	H78S20P(CL)	3-A-34	-242	208	4	9995	-239	217	3	9999
1175	H73S1W	3-A-35	527	17	5	9998	523	13	5	9998
1176	H73S3W	3-A-36	491	40	11	.9988	485	36	11	9987
1177	H73P3W	3-A-37	547	-9	9	.9994	560	-32	8	.9995
1178	H73S5W	3-A-38	426	71	7	.9994	424	66	3	9998
1179	H73S7W	3-A-39	424	117	6	.9996	422	114	3	9998
1180	H73P7W	3-A-40	335	-127	12	9962	330	-138	8	9991
1181	H73S9W	3-A-41	370	144	3	9999	373	144	3	9998
1182	H73S11W	3-A-42	0	0	0	1.0000	0	0	0	1 0000
1183	H73P11W	3-A-43	335	-180	6	.9993	329	-180	2	9999
1184	H73S12W	3-A-44	328	208	13	.9984	339	200	6	9991
1185	H73S13W	3-A-45	314	223	6	.9997	323	219	5	9995
1186	H73P13W	3-A-46	340	-230	8	.9987	349	-236	5	9998
1187	H73S14W	3-A-47	222	230	9	.9990	223	228	8	9982
1188	H73S15W	3-A-48	114	236	4	.9998	114	245	7	9988
1189	H73P15W	3-A-49	125	-247	13	9954	122	-243	7	9993
1190	H73S16 5P	3-A-50	-50	256	9	.9982	-44	258	6	9994
1191	H73P16 5P	3-A-51	-36	-236	8	9986	-34	-237	3	9997
1192	H73S18W	3-A-52	0	0	0	1.0000	0	0	0	1 0000
1193	H73S20W	3-A-53	-413	281	9	9989	-396	283	5	9998
1194	H73P20W	3-A-54	-381	-279	10	.9994	-384	-272	3	9999
1195	H79 5S18P(AC)	3-A-55	41	-43	8	9561	47	-48	5	9923
1196	I98 1COP(C)	3-A-56	-121	1	9	.9872	-124	11	5	9970
1197	B98S6MMP(C)	3-A-57	245	-9	12	9939	254	-24	7	9985
1198	H17S17W(C)	3-A-58	-58	29	10	.9281	-63	31	6	9870
1199	RESISTOR	3-A-59	-8	-1	17	0660	23	7	20	3721
1200	H76S19(D)	3-A-60	187	-269	309	.3947	57	7	81	1778

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC: SENSITIVITY/100%. VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAC: SENSITIVITY/100%. VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1201	Z75COW	3-B- 1	-563	12	14	9964	-544	0	7	9995
1202	Z77COW	3-B- 2	-505	-2	6	9997	-508	-2	3	9999
1203	Z79COW	3-B- 3	-414	5	4	9998	-421	-1	[illegible]	9999
1204	Z79 5COW	3-B- 4	0	0	0	1.0000	0	0	0	1 0000
1205	Z83COW	3-B- 5	-337	8	11	9971	-348	5	7	9990
1206	Z85COW	3-B- 6	-232	10	7	9979	-239	-3	2	9999
1207	W83PZM3.9P	3-B- 7	-355	-112	8	9991	-345	-103	4	9957
1208	Z83P6W	3-B- 8	-414	-53	10	9987	-396	-60	2	9995
1209	RESISTOR	3-B- 9	0	0	0	1 0000	0	0	0	1 0000
1210	Z83S6W	3-B-10	-324	60	15	9939	-342	63	3	9996
1211	Z79 5S6W	3-B-11	-460	86	11	9984	-534	87	31	9532
1212	Z79 5S9 9P	3-B-12	-536	142	8	9994	-537	148	5	9998
1213	W83SM20 1P	3-B-13	0	0	0	1 0000	0	0	0	1 0000
1214	W83SMZ2 0W	3-B-14	-252	111	26	.9725	-211	100	7	9986
1215	W83SZM3 9P	3-B-15	0	0	0	1 0000	0	0	0	1 0000
1216	M75COW	3-B-16	-302	117	12	9959	-314	135	4	9998
1217	M75S10 1P	3-B-17	-404	196	3	9998	-391	212	4	9995
1218	M75S13P	3-B-18	-434	283	13	9981	-407	282	4	9995
1219	M77COW	3-B-19	-417	1	4	.9998	-418	3	4	9998
1220	M77S10 1P	3-B-20	-511	207	18	.9965	-485	202	6	9997
1221	M77S13P	3-B-21	-354	249	8	.9988	-337	251	5	9998
1222	88OP6JJW(C)	3-B-22	-6	-5	22	1089	-20	13	8	8521
1223	M77P13P	3-B-23	0	0	0	1 0000	0	0	0	1 0000
1224	M79COW	3-B-24	-354	-10	7	9990	-363	-2	3	9998
1225	M79S10 1P	3-B-25	-319	146	2	9999	-313	157	3	9995
1226	M79S13P	3-B-26	-233	160	13	9936	-246	176	3	9999
1227	M85COW	3-B-27	-270	-7	7	.9985	-283	3	2	9999
1228	M81S10 1P	3-B-28	-241	133	15	9907	-264	154	5	9996
1229	M81S13P	3-B-29	-276	151	8	9977	-285	164	2	9999
1230	M81P10 1P	3-B-30	-262	-138	20	.9931	-234	-147	6	9987
1231	M81P13P	3-B-31	-327	-150	3	9999	-323	-141	3	9998
1232	M83COW	3-B-32	0	0	0	1 0000	0	0	0	1 0000
1233	M83S10 1P	3-B-33	-271	136	5	9990	-271	149	2	9995
1234	M83S13P	3-B-34	-343	188	5	.9995	-345	198	4	9998
1235	M81COW	3-B-35	348	-3	4	9997	-352	1	3	9999
1236	M85S10 1P	3-B-36	-253	97	5	.9989	-250	105	3	9998
1237	M85S13P	3-B-37	-209	133	9	9960	-208	136	9	9982
1238	M85P10 1P	3-B-38	-319	-98	6	9995	-329	-92	2	9999
1239	M85P13P	3-B-39	-202	-128	4	9995	-210	-121	2	9997
1240	F81 5S(4INS IB)	3-B-40	-1	-48	13	9100	-9	-60	7	9805
1241	M81S5 5P	3-B-41	-371	33	3	9998	-374	39	3	9999
1242	M83S5 5P	3-B-42	0	0	0	1 0000	0	0	0	1 0000
1243	M83P10.1P	3-B-43	-282	-138	5	9996	-293	-130	3	9997
1244	M83P13P	3-B-44	0	0	0	1 0000	0	0	0	1 0000
1245	I73COP	3-B-45	180	6	7	.9964	187	1	6	9977
1246	I77COP	3-B-46	268	-2	5	.9992	272	-4	2	9998
1247	I81COP	3-B-47	241	0	10	.9954	229	-4	9	9963
1248	F81CONA	3-B-48	-20	2	3	9320	-26	10	8	8933
1249	F85CONA	3-B-49	-57	-3	5	9795	-50	5	5	9768
1250	B8OP8MMRH	3-B-50	-14	-17	11	.7679	-6	-22	5	9300
1251	B8OP8MMRD	3-B-51	-48	-23	2	9969	-46	-21	2	9945
1252	B8OP8MMRV	3-B-52	0	0	0	1349	0	0	1	0895
1253	B8OP9MFRH	3-B-53	-82	-20	7	.9849	-73	-21	4	9935
1254	B8OP9MFRD	3-B-54	-80	-29	8	9863	-71	-19	6	9786
1255	B8OP9MFRV	3-B-55	-5	2	8	0376	5	-2	3	6792
1256	I85COP	3-B-56	323	-4	7	.9988	314	3	4	9996
1257	RESISTOR	3-B-57	0	0	0	1 0000	0	0	0	1 0000
1258	RESISTOR	3-B-58	-10	5	10	.3659	3	2	5	1522
1259	RESISTOR	3-B-59	-214	-159	266	4788	-1284	-2841	1490	7212
1260	H83P19(D)	3-B-60	-10	2	5	6559	-8	0	6	5254
1261	B86COZZP	2- - 1	103	9	5	9950	107	-6	5	9940
1262	B86COZZS	2- - 2	-404	6	3	.9999	-406	15	5	9997
1263	B86P3ZZP	2- - 3	71	10	2	9977	71	1	1	9990
1264	B86P3ZZS	2- - 4	-267	-8	3	.9997	-266	3	3	9997
1265	B86P8ZZP	2- - 5	45	9	14	.8500	52	1	11	8996
1266	B86P8ZZS	2- - 6	-189	5	6	.9979	-185	2	4	9986
1267	B86COMZP	2- - 7	1	8	3	.8608	4	1	3	5354
1268	B86COMZS	2- - 8	-85	5	6	.9886	-86	2	5	9905
1269	B86P3MZP	2- - 9	-20	14	11	6328	-18	4	11	6381
1270	B86P3MZS	2- -10	-10	15	7	.7553	-6	-1	4	4586
1271	B86P8MZP	2- -11	5	11	2	.9568	5	9	2	9260
1272	B86P8MZS	2- -12	-24	22	4	.9581	-21	19	6	9622
1273	B86COMFP	2- -13	6	4	4	7288	0	3	2	6783
1274	B86COMFS	2- -14	-188	2	2	.9997	-190	4	3	9994
1275	B86P9MFP	2- -15	-35	5	5	.9544	-34	9	4	9752

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1276	B86P9MFS	2- -16	-63	43	12	9282	-56	41	6	9884
1277	B86COFIP	2- -17	-26	2	2	9799	-25	0	2	9806
1278	B86COFIS	2- 18	15	2	2	9613	18	0	2	9779
1279	B86P6FIP	2- 19	-34	11	3	9825	-33	7	4	9757
1280	B86P6FIS	2- -20	-47	0	4	9826	-51	-5	4	9864
1281	B86S4ZZP	2 21	20	5	9	7384	27	-4	5	9363
1282	B86S4ZZS	2 -22	-219	19	12	9922	-207	15	6	998[illegible]
1283	B86S8ZZP	2- 23	80	-6	6	5844	76	-3	4	9[illegible]
1284	B86S8ZZS	2 24	-183	5	5	9983	-183	6	5	99[illegible]
1285	B86S4MZP	2- -25	-12	8	11	4195	-8	-4	6	4276
1286	B86S4MZS	2- -26	-87	3	3	9[illegible]	-90	2	2	9987
1287	B86S8MZP	2- 27	16	-13	5	8436	11	-12	2	9820
1288	B86S8MZS	2- -28	-11	-20	7	8973	14	-14	5	8339
1289	B86S2MFP	2- -29	32	2	3	9735	-36	6	3	9896
1290	B86S2MFS	2 -30	33	20	24	6708	23	11	11	6750
1291	B86S6FIP	2- -31	-34	-4	6	9374	-31	-8	4	9496
1292	B86S6FIS	2- -32	-50	7	3	9912	-49	4	3	9511
1293	B86COHHRH	2 -33	11	5	3	9159	12	6	5	7270
1294	B86COHHRD	2 -34	-10	2	2	8877	-10	6	2	9420
1295	B86COHHRV	2- -35	80	4	4	9928	-83	-2	6	9865
1296	B86P7IIRV	2- -36	2	0	1	4162	1	0	2	2755
1297	B86P[illegible]RD	2- -37	7	37	6	9738	-2	23	5	9344
1298	B86P7IIRH	2- -38	-69	12	4	9896	-68	8	5	9889
1299	B86P[illegible]FIRV	2- -39	5	25	9	8665	3	28	9	8726
1300	B86P[illegible]FIRH	2- -40	0	0	0	1 0000	0	0	0	1 0000
1301	B86P[illegible]FIRD	2- -41	-78	7	3	9951	-71	6	6	9838
1302	B86P12FFRV	2- -42	4	24	4	9663	-1	23	7	8858
1303	B86P12FFRD	2- -43	79	21	5	9940	66	26	11	9261
1304	B86P12FFRH	2- -44	27	5	4	9611	39	5	4	9677
1305	B86S7IIRH	2 -45	-134	-3	6	9960	-137	-4	5	9969
1306	B86S7IIRD	2- -46	-129	12	5	9959	-137	5	7	9943
1307	B86S7IIRV	2- -47	-14	-15	8	8844	-25	-18	7	8737
1308	B86S[illegible]FIRH	2- -48	[illegible]	-5	30	8629	-96	4	25	8641
1309	B86S11FIRD	2- -49	41	-9	4	9834	-39	-10	6	9478
1310	B86S11FIRV	2- -50	-6	-34	3	9882	0	-35	3	9917
1311	B86S12FFRH	2- -51	-5	-9	4	8392	0	-8	2	8982
1312	B86S12FFRD	2- -52	52	-26	4	9877	56	-24	3	9972
1313	B86S12FFRV	2- -53	49	-41	3	9937	50	-38	2	9979
1314	H84 SS21P(CM)	2- 54	-241	162	5	9992	-229	175	2	9999
1315	H84 SS2[illegible]	2- 55	244	177	15	9928	-258	183	8	9990
1316	RESISTOR	2- 56	6	0	5	4631	18	1	10	6084
1317	RESISTOR	2- -57	0	-2	4	2096	11	1	7	5401
1318	RESISTOR	2- -58	1	0	4	2067	10	0	5	6352
1319	RESISTOR	2- 59	7	-3	5	4672	10	0	6	5811
1320	W[illegible]	2- -60	24	7	19	4231	-15	0	8	6089
1321	B92[illegible]ZZP	2-A 1	156	69	21	9760	190	22	10	9926
1322	B92[illegible]ZZS	2-A 2	-408	14	10	9985	-395	35	5	9996
1323	B92P4ZZP	2-A 3	48	8	9	9364	23	14	10	7187
1324	B92P4ZZS	2-A- 4	198	2	6	9975	-192	46	5	9985
1325	B92P8ZZP	2-A 5	-92	-16	29	9432	130	76	25	9212
1326	B92P8ZZS	2-A 6	86	51	25	9153	45	0	17	7612
1327	B92COMZP	2-A- 7	16	44	13	9195	23	-13	7	9157
1328	B92COMZS	2-A- 8	-8	20	8	8180	-8	-9	6	6531
1329	B92P4MZP	2-A- 9	16	39	9	9537	22	23	9	8360
1330	B92P4MZS	2-A-10	-30	44	15	8515	-29	-34	19	7088
1331	B92P8MZP	2 A 11	-25	46	20	7886	-63	74	14	9747
1332	B92P8MZS	2-A-12	29	11	85	1939	-56	49	14	9563
1333	B92COMFP	2-A-13	0	9	17	2018	-11	-15	11	6160
1334	B92COMFS	2-A 14	-168	1	3	9990	-175	-3	6	9968
1335	B92P5MFP	2 A-15	103	27	8	9836	-114	33	8	9913
1336	B92P5MFS	2-A-16	153	-17	18	9699	-174	-4	12	9886
1337	B92COFIP	2 A-17	-73	-46	182	1281	133	-45	350	1192
1338	B92COFIS	2-A 18	27	35	41	3911	27	11	23	3967
1339	B92P6FIP	2-A 19	66	-4	7	9702	-74	11	9	9711
1340	B92P6FIS	2-A-20	65	4	10	9402	-57	-2	6	9713
1341	B92S4ZZP	2 A 21	1	47	16	8774	1	-18	15	5739
1342	B92S4ZZS	2 A 22	250	3	75	8274	-207	52	33	9557
1343	B92S8ZZP	2 A 23	5	42	14	9429	107	1	18	9370
1344	B92S8ZZS	2 A-24	29	29	14	9774	-53	-2	31	5839
1345	B92S4MZP	2-A 25	72	6	31	3530	-50	-16	36	4754
1346	B92S4MZS	2 A 26	41	27	9	8997	63	-69	7	9926
1347	B92S8MZP	2 A 27	42	48	7	9840	-42	-25	11	8730
1348	B92S8MZS	2-A 28	[illegible]	34	12	9609	-51	-20	14	8443
1349	B92S2MFP	2 A 29	[illegible]	[illegible]	4	3339	0	-18	5	9069
1350	B92S2MFS	2-A 30	41	[illegible]	7	9481	-40	13	6	9352

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG: SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1351	B92S6FIP	2-A-31	-85	-4	9	9749	-86	-7	11	9564
1352	B92S6FIS	2-A-32	-56	4	4	9828	-68	9	6	9820
1353	B92P.2HHRH	2-A-33	-43	-7	19	7456	-68	8	16	8978
1354	B92P 2HHRD	2-A-34	-85	3	4	9936	-83	13	3	9970
1355	B92P.2HHRV	2-A-35	-20	7	6	8106	-25	2	9	7876
1356	B92P711RV	2-A-36	2	0	2	2418	[illegible]	0	1	2348
1357	B92P711RD	2-A-37	-102	-21	8	9870	-103	-14	4	9964
1358	B92P711RH	2-A-38	-98	-3	3	9970	-91	3	4	9963
1359	B92P11FIRV	2-A-39	-10	19	11	6805	2	23	10	[illegible]
1360	B92P11FIRD	2-A-40	0	0	1	1971	0	0	1	[illegible]
1361	B92P11FIRH	2-A-41	-76	3	8	9748	-71	21	12	9556
1362	B92P11 9FFRV	2-A-42	11	24	5	9602	15	29	11	8201
1363	B92P11 9FFRD	2-A-43	50	25	5	9894	31	5	8	8366
1364	B92P11 9FFRH	2-A-44	1	42	10	9336	27	41	7	9566
1365	B92S711RH	2-A-45	-77	-2	5	9904	-75	0	6	9830
1366	B92S711RD	2-A-46	-45	21	4	9794	-56	12	12	9266
1367	B92S711RV	2-A-47	-55	-11	6	9768	-52	-14	7	9466
1368	B92S11FIRH	2-A-48	-76	-36	7	9875	-96	-25	10	9652
1369	B92S11FIRD	2-A-49	0	9	3	8450	[illegible]	[illegible]	7	2167
1370	B92S11FIRV	2-A-50	3	-10	19	1822	-4	[illegible]	10	4868
1371	B92S11 9FFRH	2-A-51	-3	-54	14	9078	11	-55	14	9315
1372	B92S11 9FFRD	2-A-52	40	-24	5	9670	48	-34	6	9849
1373	B92S11 9FFRV	2-A-53	33	-22	6	9310	33	-15	5	9072
1374	F91S11 9P(BB)	2-A-54	154	-94	14	9820	159	-84	11	9942
1375	M87 5P(CS PST	2-A-55	-253	-89	2	9999	-245	-83	5	9986
1376	RESISTOR	2-A-56	10	-5	8	4465	25	8	16	5100
1377	RESISTOR	2-A-57	0	0	0	1.0000	0	0	0	1.0000
1378	RESISTOR	2-A-58	0	-5	14	0443	9	-4	13	3397
1379	RESISTOR	2-A-59	0	0	[illegible]	1.0000	0	0	0	1.0000
1380	M79 5C? D	2-A-60	-5	3	9	5389	-14	1	9	5754
1381	M93 6P8W	2-B-1	309	-64	6	9994	-310	-63	5	9992
1382	M93 6P8 [illegible]	2-B-2	-302	-69	3	9998	-307	-68	6	9951
1383	M93 6P9W	2-B-3	-298	44	2	9999	-303	-80	5	9993
1384	M93 6P9 5P	2-B-4	222	-46	2	9998	-274	-52	2	9998
1385	M93 6P [illegible]W	2-B-5	325	-77	5	9961	-322	-85	3	9955
1386	M93 6P [illegible]W	2-B-6	254	-79	2	9999	-264	-79	5	9985
1387	M92 8P8W	2-B-7	[illegible]	-85	9	9937	-99	-90	8	9901
1388	M9? 8P8 ?RH	2-B-8	[illegible]	46	3	9996	171	41	5	9978
1389	M9? 8 ? 5P	2-B-9	[illegible]	-122	8	9942	11	-129	8	9955
1390	M92 8P8 5R	2-B-10	-41?	-76	9	9990	-414	-76	9	9988
1391	M92 8P9W	2-B-11	36?	-87	2	9999	-369	-84	4	9997
1392	M92 8P9 5P	2-B-12	260	-52	5	9976	-261	-64	4	9993
1393	M92 8P ?W	2-B-13	306	-86	2	9999	-318	-81	5	9992
1394	M92 8P ?W	2-B-14	206	-93	3	9998	-212	-93	6	9982
1395	M92 8P 2W	2-B-15	-234	-87	4	9996	-237	-89	5	9987
1396	M92 2P8W	2-B-16	-69	-85	19	9646	-66	-104	11	9827
1397	H85 9P?7P? P	2-B-17	7	-140	3	9992	-14	-138	6	9973
1398	M92 2P8 5P	2-B-18	-39	-105	25	9417	128	-156	37	9595
1399	B92P7MMS(C)	2-B-19	-186	-30	9	9955	-183	-3	7	9968
1400	M92 3P9S	2-B-20	-327	-92	12	9977	-325	-89	15	9936
1401	M92 3P9 2RH	2-B-21	39	48	11	9655	39	54	10	9524
1402	M92 3P9 2RD	2-B-22	82	-90	8	9878	78	-98	12	9889
1403	M92 3P9 2RL	2-B-23	-382	-89	7	9994	-397	-79	4	9998
1404	M92 3P9 5P	2-B-24	-501	107	5	9998	-511	-101	4	9998
1405	M92 3P10S	2-B-25	-319	-85	11	9978	-320	-87	10	9973
1406	M92 3P11S	2-B-26	-225	-107	3	9998	-230	-105	5	9988
1407	M92 3P12S	2-B-27	-255	-75	8	9983	-262	-74	3	9996
1408	M91 6P8S	2-B-28	-406	-51	11	9984	-415	-29	13	9976
1409	M91 6P8 2P	2-B-29	-240	-87	3	9998	-245	-91	5	9990
1410	M91 6P8 5P	2-B-30	-276	-77	5	.9993	-276	-83	8	9979
1411	M91 6P9W	2-B-31	-204	-81	27	9758	-215	-93	35	9329
1412	M91 6P9 5P	2-B-32	-232	-88	4	9996	-237	-96	7	9978
1413	M91 6P9 7RL	2-B-33	-216	-98	9	.9979	-231	-88	12	9928
1414	M91 6P9 7RH	2-B-34	385	-63	33	9796	607	27	198	7988
1415	M91 6P9 7RD	2-B-35	60	52	3	9976	53	50	6	9823
1416	M91 6P10W	2-B-36	2	0	2	5142	1	0	2	0825
1417	M91 6P11W	2-B-37	-307	-94	3	9998	-316	-88	8	9982
1418	M91 6P12W	2-B-38	-246	-85	24	9848	-276	-91	7	9983
1419	H86 1P19P(HSU)	2-B-39	665	-54	5	9998	664	-58	9	9996
1420	H86 1P19P(HSL)	2-B-40	0	0	0	1.0000	0	0	0	1.0000
1421	B64S 1MMP(CUST)	2-B-41	0	-24	19	5990	31	-11	20	6377
1422	H71.9P15P(C)	2-B-42	306	-300	15	9968	253	-284	5	9998
1423	H71P9P(C)	2-B-43	323	-147	6	.9992	311	-155	6	9995
1424	B64P8.SMFRV(BB)	2-B-44	-48	-21	6	9812	-44	-19	9	8982
1425	B64P8.SMFRD(BB)	2-B-45	-207	-28	18	9845	-217	-25	9	9952

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC: SENSITIVITY 100% VERTICAL	COMBINED LOADING @ 60 DEGREE LAC: SENSITIVITY 100% LATERAL	COMBINED LOADING @ 60 DEGREE LAC: ERROR OF ESTIMATE	COMBINED LOADING @ 60 DEGREE LAC: CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAC: SENSITIVITY 100% VERTICAL	COMBINED LOADING @ 240 DEGREE LAC: SENSITIVITY 100% LATERAL	COMBINED LOADING @ 240 DEGREE LAC: ERROR OF ESTIMATE	COMBINED LOADING @ 240 DEGREE LAC: CORRELATION COEFFICIENT
1426	B64P8 SMFRHIBB	2-B-46	-116	43	21	9164	120	6	12	9784
1427	M80S95(SU)	2-B-47	-89	97	5	9965	-85	99	4	9985
1428	M80S95(SU)	2-B-48	-104	32	5	9930	-106	33	8	9917
1429	H79.5S(BP.FC)	2-B-49	47	-55	3	9961	46	-54	2	9986
1430	H79S2OP(CU)	2-B-50	-165	216	3	9996	-158	221	2	9995
1431	RESISTOR	2-B-51	1	2	9	1643	14	3	10	4708
1432	RESISTOR	2-B-52	1	0	4	1414	0	0	0	0000
1433	RESISTOR	2-B-53	0	0	0	1.0000	0	0	0	1.0000
1434	RESISTOR	2-B-54	0	0	0	1.0000	0	1	0	1.0000
1435	RESISTOR	2-B-55	6	1	5	1934	22	5	13	5317
1436	RESISTOR	2-B-56	6	0	6	3819	19	5	2	5233
1437	RESISTOR	2-B-57	1	2	8	2011	8	2	7	3579
1438	RESISTOR	2-B-58	2	0	5	1458	5	1	6	5057
1439	RESISTOR	2-B-59	0	0	0	1.0000	0	0	0	1.0000
1440	H49F S D	2-B-60	-13	2	8	5366	-16	11	8	6466
1441	287COW	1- -1	-201	9	4	9988	189	-14	5	9982
1442	289COW	1- -2	187	11	4	9990	184	7	5	9985
1443	2 COW	1- -3	-68	-6	8	9702	-62	3	8	9672
1444	W9 95MZC (RL	1- -4	-29	29	9	8758	-28	27	7	9576
1445	W 95MZC (RC	1- -5	956	74	27	9581	-990	54	18	9993
1446	W9 95MZC (RV	1- -6	47	-51	11	8418	57	-48	15	9486
1447	M87COW	1- -7	-319	2	16	9929	327	-6	28	9821
1448	M8759 (P	1- -8	315	87	13	995	270	111	11	9975
1449	M875	1- -9	222	98	4	9985	-226	110	2	9995
1450	M89COW	1- -10	0	0	0	1.0000	0	0	0	1.0000
1451	M8959 P	1- -11	-256	90	2	9998	-258	95	3	9998
1452	M895 2	1- -12	0	0	0	1.0000	0	0	0	1.0000
1453	M89P9 (P	1- -13	258	-106	13	9965	-251	-96	6	9982
1454	M89P 2	1- -14	0	0	0	1.0000	0	0	0	1.0000
1455	M91COW	1- -15	-195	-16	72	9735	-260	13	51	9185
1456	M91S9 (P	1- -16	-259	71	7	9981	275	83	6	9985
1457	M91S 2	1- -17	-285	101	2	9995	-285	107	2	9998
1458	M93COW	1- -18	0	0	0	1.0000	2	0	0	1.0000
1459	M93S 2	1- -19	-22	96	10	4948	225	91	11	9966
1460	M93P 2	1- -20	0	0	0	1.0000	0	0	0	1.0000
1461	M97COW	1- -21	-158	-7	3	9992	-157	4	3	9993
1462	M97S 2	1- -22	-45	55	4	9933	-46	57	4	9967
1463	M97P 2	1- -23	78	-45	7	991	-75	-48	8	9780
1464	M99COW	1- -24	-153	-4	7	9968	-154	11	3	9989
1465	M995 2	1- -25	-56	32	2	9954	-56	34	2	9990
1466	M COW	1- -26	-138	1	4	9912	14	0	10	9889
1467	M S 2	1- -27	114	34	3	9974	-111	42	4	9983
1468	M 0 P 2	1- -28	0	0	0	1.0000	0	0	0	1.0000
1469	M COW	1- -29	-101	-5	2	9989	-103	-4	2	9994
1470	M 03	1- -30	-131	38	7	9913	-121	34	6	9957
1471	M 5COW	1- -31	-128	1	7	9942	142	-2	6	9956
1472	M	1- -32	-159	29	8	9956	161	31	8	9957
1473	M 25	1- -33	0	0	0	1.0000	0	0	0	1.0000
1474	M 75	1- -34	96	33	3	9977	-94	33	2	9995
1475	M COW	1- -35	-208	2	3	9996	-207	-1	4	9991
1476	HC NA	1- -36	-5	3	2	8478	8	-2	2	7938
1477	189LOP	1- -37	182	-3	3	9993	178	-2	4	9987
1478	F97CONA	1- -38	57	0	3	9920	60	-2	4	9886
1479	97COP	1- -39	0	0	0	1.0000	0	0	0	1.0000
1480	97CONA	1- -40	59	2	7	9690	64	-3	6	9802
1481	97COP	1- -41	133	0	8	9909	143	-4	6	9953
1482	F CONA	1- -42	173	-7	11	9904	176	-5	8	9955
1483	C COP	1- -43	-12	15	31	1472	25	-1	19	4829
1484	F 5CONA	1- -44	175	-8	14	9843	177	-5	9	9939
1485	105COP	1- -45	-69	-10	7	9770	-74	-1	10	9567
1486	ASMZ79C120	1- -46	-660	79	7	9997	-651	86	4	9999
1487	ASMZ79C112(RES	1- -47	462	79	3	9995	-458	85	3	9999
1488	ASMZ87C315	1- -48	-1868	108	122	9890	-2027	9	225	9710
1489	ASMZ87C308	1- -49	-1725	208	180	9715	-1765	246	69	9968
1490	ASMZ87C300	1- -50	-1652	182	7	9999	-1659	172	13	9999
1491	ASMZ87C297	1- -51	-1411	184	7	9999	-1420	177	12	9999
1492	ASMZ87RVMF	1- -52	-352	95	4	9997	-352	102	4	9997
1493	ASMZ87RDMF	1- -53	248	121	23	9892	264	145	18	9880
1494	ASMZ87RLMF	1- -54	145	-7	7	9942	142	-14	7	9953
1495	B925 MZP(BM)	1- -55	74	26	19	9133	-41	-76	9	9784
1496	B925 MZS(BM	1- -56	-186	-28	11	9925	-150	-17	20	9549
1497	RESISTOR	1- -57	-6	3	4	5387	2	-1	3	3029
1498	RESISTOR	1- -58	11	4	5	6690	-8	-1	4	6587
1499	RESISTOR	1- -59	0	0	0	1.0000	0	0	0	1.0000
1500	H92P (O)	1- -60	15	3	8	5777	-16	-2	9	6043

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAC SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1501	B98COMMS	1-A- 1	-489	5	4	9998	-497	2	6	9996
1502	B98COMMP	1-A- 2	246	-1	16	9891	246	2	14	9922
1503	B98P4MMP	1-A- 3	37	6	10	8720	42	6	10	8753
1504	B98P4MMS	1-A- 4	0	0	0	1.0000	0	0	0	1.0000
1505	B98P9MMP	1-A- 5	-147	14	12	9830	-149	13	7	9954
1506	B98P9MMS	1-A- 6	-160	-35	22	9660	-159	38	22	9514
1507	B98COMFP	1-A- 7	56	-5	24	6985	57	27	15	8561
1508	B98COMFS	1-A- 8	-70	-1	31	7098	-73	1	30	7249
1509	B98P5MFP	1-A- 9	35	16	10	9020	32	3	8	8591
1510	B98P5MFS	1-A-10	116	42	21	9507	126	27	27	6925
1511	B98P6FIP	1-A-11	-22	20	8	8332	12	22	11	8289
1512	B98COFIS	1-A-12	0	0	0	1.0000	0	0	0	1.0000
1513	B98COFIP	1-A-13	-13	4	10	4341	14	3	11	0865
1514	B98P6FIS	1-A-14	-29	-3	9	8289	15	-12	18	3946
1515	B98S4MMP	1-A-15	74	-1	11	5499	75	-4	8	9724
1516	B98S4MMS	1-A-16	-203	7	27	9577	-154	-7	18	9669
1517	B98P8MMP	1-A-17	73	25	16	9273	76	24	12	9342
1518	B98S8MMS	1-A-18	46	-71	44	6636	20	-70	20	8881
1519	B98S3MFP	1-A-19	-26	6	11	6813	-30	2	12	7390
1520	B98S4MFS	1-A-20	48	3	14	6489	42	9	14	7811
1521	B98S6FIP	1-A-21	-18	-1	13	5343	-28	[illegible]	12	7188
1522	B98S6FIS	1-A-22	-18	15	8	7772	-7	20	9	8367
1523	B98P 2HHRH	1-A-23	-134	4	8	9913	-124	10	8	9902
1524	B98P 2HHRD	1-A-24	57	25	12	9428	77	2	16	9109
1525	B98P 2HHRV	1-A-25	16	-6	9	6911	-6	3	10	3022
1526	B98P711RD	1-A-26	-108	33	13	9595	-99	38	17	9594
1527	B98P711RV	1-A-27	-130	-33	39	8694	-171	-21	15	9795
1528	B98P711RH	1-A-28	-159	24	11	9861	-144	17	10	9899
1529	B98P11 SFIRV	1-A-29	64	-27	21	7899	80	-19	12	9615
1530	B98P11 SFIRD	1-A-30	231	-35	9	9956	255	-25	9	9972
1531	B98P11 SFIRH	1-A-31	-201	51	10	9931	-192	63	13	9927
1532	B98P11 9FFRV	1-A-32	-7	57	7	9786	-1	55	8	9717
1533	B98P11 9FFRD	1-A-33	240	15	10	9958	251	1	10	9960
1534	B98P11 9FFRH	1-A-34	12	53	13	9371	28	55	9	9608
1535	B98S711RH	1-A-35	-145	-38	29	9341	-136	-9	25	9222
1536	B98S711RD	1-A-36	-55	40	12	9080	-48	50	13	9590
1537	B98S711RV	1-A-37	-26	-35	12	9174	-27	-28	12	8023
1538	B98S11 SFIRH	1-A-38	-184	-74	25	9742	-184	-53	12	9879
1539	B98S11 SFIRD	1-A-39	157	26	15	9828	147	-2	33	8940
1540	B98S11 SFIRV	1-A-40	0	0	0	1.0000	0	0	0	1.0000
1541	B98S11 9FFRH	1-A-41	17	-104	17	9642	2	-115	20	9618
1542	B98S11 9FFRD	1-A-42	240	39	8	9976	247	12	10	9957
1543	B98S11 9FFRV	1-A-43	18	-29	8	8883	20	-25	8	9241
1544	B98S10MFS	1-A-44	111	-136	30	9326	102	-141	35	9547
1545	B98S10MFP	1-A-45	34	85	24	.9279	54	80	24	8822
1546	H100P20P(FC)	1-A-46	-513	420	6	9998	-488	436	8	9998
1547	ASMM77C1SF	1-A-47	-836	15	83	9763	-1001	-54	10	9998
1548	ASMM77C2SF	1-A-48	-28	-24	10	9094	-18	-11	14	4657
1549	ASMM77C3SF	1-A-49	-312	232	31	9810	-274	204	20	9953
1550	ASMM77C4SF	1-A-50	-311	140	81	8534	-276	175	27	9904
1551	ASMM77C5SF	1-A-51	-589	97	4	.9999	-596	99	7	9997
1552	ASMM77C1SA	1-A-52	-433	294	45	9778	-346	244	8	9995
1553	ASMM77C2SA	1-A-53	-359	263	6	9994	-351	272	4	9999
1554	ASMM77C3SA	1-A-54	-86	-23	15	.9499	-139	-89	70	6735
1555	ASMM77C4SA	1-A-55	-508	502	8	9996	-473	532	13	9996
1556	ASMM77C5SA	1-A-56	-284	347	9	.9991	-267	358	8	9996
1557	ASMM77P3SA0 5	1-A-57	-935	90	5	9999	-937	102	7	9999
1558	ASMM77P3SA1 5	1-A-58	-629	87	5	.9998	-636	93	8	9997
1559	ASMM77P3SA3 0	1-A-59	0	0	0	1.0000	0	0	0	1.0000
1560	H103S19(D)	1-A-60	-276	106	16	9907	-283	151	10	9985
1561	B108P9MFP	1-B- 1	-16	10	3	9498	-19	16	3	9835
1562	B108COMMS	1-B- 2	25	2	6	9014	24	5	5	.8881
1563	B108P4MMP	1-B- 3	-57	8	9	9419	-42	16	11	9059
1564	B108P4MMS	1-B- 4	0	0	0	1.0000	0	0	0	1.0000
1565	B108P8MMP	1-B- 5	-37	8	3	9806	-31	10	4	.9719
1566	B108P8MMS	1-B- 6	-28	1	8	8338	-7	12	15	4626
1567	RESISTOR	1-B- 7	-23	-7	41	1889	-6	34	22	6935
1568	B108COMFS	1-B- 8	-46	12	8	9283	-40	7	4	9771
1569	B108P4MFP	1-B- 9	-52	21	5	9779	-53	22	2	9980
1570	B108P4MFS	1-B-10	72	15	6	9868	71	16	6	9777
1571	RESISTOR	1-B-11	4	-1	9	1803	17	6	11	4939
1572	B108COFIS	1-B-12	0	0	0	1.0000	0	0	0	1.0000
1573	B108P6FIP	1-B-13	-17	13	4	8903	-20	19	4	9763
1574	B108P6FIS	1-B-14	4	-2	2	5440	3	-5	1	9308
1575	B108S4MMP	1-B-15	-70	1	4	9930	-68	1	2	9978

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1576	B1085AMMS	1-B-16	66	11	7	9687	-61	11	6	9602
1577	B1085BMMP	1-B-17	47	0	2	9695	-42	0	2	9484
1578	B1085BMMS	1-B-18	-32	7	4	9609	-26	4	2	9-3
1579	B1085AMFP	1-B-19	70	18	10	9476	77	10	11	9561
1580	B1085AMFS	1-B-20	88	7	4	9956	95	7	5	9922
1581	B1085BFIP	1-B-21	-28	-3	2	9861	-25	2	2	9869
1582	B1085BFIS	1-B-22	39	8	10	8814	23	12	4	9042
1583	B108P 2HHRH	1-B-23	536	-21	6	[illegible]	-546	36	5	[illegible]
1584	B108P 2HHRD	1-B-24	586	27	7	[illegible]	596	45	12	9194
1585	B108P 2HHRV	1-B-25	0	0	0	[illegible]	0	0	0	1.0000
1586	B108P7 1RV	1-B-26	48	5	6	[illegible]	56	2	4	9898
1587	B108P7 1RD	1-B-27	22	-43	7	[illegible]	28	-36	11	9285
1588	B108P7 1RH	1-B-28	308	-1	7	9989	-305	5	6	9991
1589	B108P 2 5F1RV	1-B-29	150	1	3	9993	151	1	4	9982
1590	B108P 2 5F1RD	1-B-30	341	-23	2	9994	343	-26	2	9999
1591	B108P 2 5F1RH	1-B-31	82	10	3	9577	-90	-6	5	9903
1592	B108P10 9FFRV	1-B-32	12	35	3	9852	7	37	4	9472
1593	B108P10 9FFRD	1-B-33	251	16	5	9990	256	14	4	9992
1594	B108P10 9FFRH	1-B-34	18	-12	2	9752	22	-10	4	9617
1595	B1085P7 RH	1-B-35	256	31	3	9998	-253	26	2	9958
1596	B1085P7 RD	1-B-36	-41	128	78	6662	483	31	124	8604
1597	B1085P7 RV	1-B-37	5	3	2	9322	54	3	2	9965
1598	B1085 5F1RH	1-B-38	-21	27	3	9997	-205	-26	3	9995
1599	B1085 5F1RD	1-B-39	194	65	4	9994	198	70	4	9990
1600	B1085 5F1RV	1-B-40	324	-45	101	8025	172	-27	92	6648
1601	B1085 9FFRH	1-B-41	15	92	4	9977	-33	89	6	9940
1602	B1085 9FFRD	1-B-42	74	174	7	9976	68	-185	6	9987
1603	B1085 9FFRV	1-B-43	39	139	14	9853	6	-121	3	9993
1604	B1085P9MFS	1-B-44	71	4	2	9975	-73	5	3	9966
1605	APMM77C1PA	1-B-45	430	-476	5	9996	-450	-471	9	9995
1606	APMM77C2PA	1-B-46	-547	516	6	9999	-564	-507	6	9998
1607	APMM77C3PA	1-B-47	51	-422	5	9999	-523	-412	3	9999
1608	APMM77C4PA	1-B-48	-921	5	45	9942	-1050	-19	34	9974
1609	APMM77C5PA	1-B-49	325	153	45	9805	-324	-186	10	9976
1610	APMM77P3PA0 5	1-B-50	362	253	5	9998	-369	-248	4	9998
1611	APMM77P3PA1 5	1-B-51	-318	226	5	9998	-327	-225	6	9992
1612	APMM77P3PA3 0	1-B-52	-310	-167	3	9999	-314	-164	2	9999
1613	APMM77C1PF	1-B-53	-571	78	8	9996	-569	-79	6	9997
1614	APMM77C2PF	1-B-54	596	71	8	9996	-598	-72	6	9997
1615	APMM77C3PF	1-B-55	-872	77	6	9999	-879	-73	4	9995
1616	APMM77C4PF	1-B-56	358	-274	9	9994	-355	-262	8	9990
1617	APMM77C5PF	1-B-57	1001	53	12	9997	-1003	58	7	9999
1618	ASM279C135	1-B-58	885	22	8	9998	-880	29	6	9999
1619	ASM279C127	1-B-59	0	0	0	1.0000	0	0	0	1.0000
1620	M1/2CFF101	1-B-60	9	4	5	6080	-7	1	6	4546
1621	M95P10W	O-1-1	160	-50	6	9978	-165	-52	9	9514
1622	M95P7W	O-1-2	-264	25	7	9987	-272	-24	10	9964
1623	M95P2W	O-1-3	-188	-2	8	9958	-190	-5	10	9926
1624	M95S1W	O-1-4	0	0	0	1.0000	0	0	0	1.0000
1625	M9552W	O-1-5	-192	8	9	9942	-198	8	13	9906
1626	M9554W	O-1-6	-172	13	8	9943	-177	17	11	9922
1627	M9556W	O-1-7	-232	50	15	9880	-226	43	13	9540
1628	M9558W	O-1-8	-282	35	9	9975	-279	44	10	9972
1629	M95510W	O-1-9	2	29	10	8748	1	27	6	9444
1630	M95510 5P	O-1-10	-44	39	11	9075	-42	36	9	9634
1631	M95511W	O-1-11	-5	35	11	8767	-11	34	9	9266
1632	M95511 5P	O-1-12	-33	35	12	8552	-41	35	10	9579
1633	M95512W	O-1-13	-33	43	11	9057	-32	41	9	9615
1634	M92P9 5P(BB)	O-1-14	27	7	22	5098	18	6	12	4906
1635	M9551W	O-1-15	142	12	10	9890	144	2	9	9896
1636	M9554W	O-1-16	126	18	10	9877	137	11	7	9923
1637	M95P4W	O-1-17	124	-17	9	9872	127	-20	8	9912
1638	M9555W	O-1-18	117	22	9	9885	120	23	8	9890
1639	M9557W	O-1-19	122	31	7	9944	127	29	8	9882
1640	M95P7W	O-1-20	124	30	7	9900	123	-32	8	9929
1641	M9559W	O-1-21	87	40	7	9909	92	35	8	9790
1642	M95511W	O-1-22	0	0	0	1.0000	0	0	0	1.0000
1643	M95P11W	O-1-23	73	-41	5	9885	72	-45	6	9928
1644	M95512W	O-1-24	69	52	7	9906	70	47	8	9718
1645	M95513W	O-1-25	63	49	6	9922	69	50	5	9874
1646	M95P13W	O-1-26	0	0	0	1.0000	0	0	0	1.0000
1647	M95515W	O-1-27	-11	59	7	9821	-14	54	7	9795
1648	M95516 5P	O-1-28	71	66	10	9729	-70	63	9	9883
1649	M95P16 5P	O-1-29	-56	-54	7	9887	-49	-60	6	9831
1650	M95517W	O-1-30	71	63	7	9857	-69	58	6	9932

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG				COMBINED LOADING @ 240 DEGREE LAG			
			SENSITIVITY/100% VERTICAL	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1651	H95S17W	O- -31	-128	63	6	.9952	-121	63	6	9971
1652	H95S19W	O- -32	-128	-58	3	.9991	-126	-59	3	.9985
1653	M80S9S(BMSU)	O- -33	-166	44	8	.9931	-180	37	24	9666
1654	B92SMM7(BMSL)	O- -34	-645	-68	20	.9978	-575	-96	8	.9994
1655	H49COP	O- -35	0	0	0	1.0000	0	0	0	1.0000
1656	H61COP	O- -36	0	0	0	1.0000	0	0	0	1 000C
1657	H73COP	O- -37	0	0	0	1.0000	0	0	0	1 000C
1658	H75COP	O- -38	568	-12	13	.9987	581	-8	15	9983
1659	H77COP	O- -39	0	0	0	1.0000	0	0	0	1 0000
1660	H79COP	O- -40	497	-10	6	9996	491	-6	9	9992
1661	H81COP	O- -41	440	1	4	9998	438	-12	7	9993
1662	H83COP	O- -42	0	0	0	1.0000	0	0	0	1 000C
1663	H85COP	O- -43	404	1	8	9990	431	22	18	9953
1664	H87COP	O- -44	314	1	10	.9974	321	3	12	9963
1665	H91COP	O- -45	24P	-8	5	9990	255	-1	6	9986
1666	H93COP	O- -46	203	1	20	.9772	225	-10	32	9561
1667	H95COP	O- -47	648	-103	321	.6340	628	194	246	7201
1668	H97COP	O- -48	0	0	0	1.0000	0	0	0	1 0000
1669	H99COP	O- -49	37	-3	8	.8926	36	-2	8	9111
1670	H101COP	O- -50	65	1	5	9849	35	5	14	7206
1671	H103COP	O- -51	0	0	0	1 0000	0	0	0	1 0000
1672	H105COP	O- -52	41	7	6	9587	38	-2	7	9279
1673	H107COP	O- -53	-24	22	4	9630	-23	-10	4	9394
1674	H89COP	O- -54	0	0	0	1.0000	0	0	0	1 0000
1675	H86SFF(C)	O- -55	-21	196	7	.9983	-18	197	6	9987
1676	B80PMMRH	O- -56	-3	-1	7	.0882	0	-5	7	2955
1677	B80PMMRD	O- -57	44	58	6	9908	43	56	7	9739
1678	B80PMMRV	O- -58	-262	42	6	.9983	-260	53	6	9990
1679	B80P19@18(FC)	O- -59	-217	-205	5	.9996	-220	-206	4	9995
1680	H96S19(D)	O- -60	-51	11	20	.7123	-22	11	20	5485
1681	B92P7MMS	O-A- 1	-275	-10	8	.9978	-311	37	16	9940
1682	B92P7MMP	O-A- 2	-67	76	14	9566	-101	45	8	9924
1683	B92S8MMS	O-A- 3	-373	-122	33	9877	-343	-60	19	9917
1684	B92S8MMP	O-A- 4	0	0	0	1 0000	0	0	0	1 0000
1685	B86COMMP	O-A- 5	-165	8	6	9960	-164	2	9	9925
1686	B86COMMS	O-A- 6	166	13	4	9986	164	-4	5	9978
1687	B86P7MMP	O-A- 7	-123	7	5	.9956	-129	7	5	9969
1688	B86P7MMS	O-A- 8	79	0	5	9900	80	-4	6	9869
1689	B80P1MMS	O-A- 9	-66	11	10	.9436	-53	21	5	9847
1690	B80P1MMP	O-A-10	4	13	12	5843	11	13	5	8158
1691	F82P11M	O-A-11	-86	-54	13	.9769	-82	-52	5	9932
1692	H80P17(LF)	O-A-12	-76	-90	15	9808	-75	-88	6	9939
1693	B86P20(C)	O-A-13	-3	32	12	.8323	12	31	4	9767
1694	B86P11MMRH	O-A-14	9	16	23	4140	17	22	6	9174
1695	B86P11MMRD	O-A-15	10	37	9	.9440	23	35	5	9738
1696	B86P11MMRV	O-A-16	-17	26	8	.8856	-11	23	5	9630
1697	B86P11MP(HSU)	O-A-17	26	27	13	8722	55	41	17	8525
1698	B86P11MP(HSL)	O-A-18	-38	22	5	9637	-32	20	7	9523
1699	F86P11P(C)	O-A-19	-46	-9	9	9295	-49	-8	10	8978
1700	B80P11F1P(BB)	O-A-20	82	22	5	9941	81	19	7	9772
1701	H80P15@14P(LF)	O-A-21	133	-214	4	.9995	128	-222	5	9996
1702	B86P9W(C)	O-A-22	0	0	0	1.0000	0	0	0	1 0000
1703	B86P8 5P(BB)	O-A-23	-7	2	4	5655	-12	-3	5	6930
1704	I80P2P(C)	O-A-24	-63	25	6	9742	-60	22	6	9852
1705	B86S7MMP(C)	O-A-25	-26	-18	6	.9582	-10	-13	5	8450
1706	H85 9S19P(C)	O-A-26	0	0	0	1 0000	0	0	0	1 0000
1707	B80S9 SMFRH	O-A-27	-21	15	10	.6915	-11	24	15	7366
1708	B80S9 SMFRD	O-A-28	-29	14	5	9403	-24	16	8	9044
1709	B80S9 SMFRV	O-A-29	40	-11	3	9854	39	-11	5	9750
1710	B92SMM7(BMSU)	O-A-30	63	51	4	.9967	67	51	3	9952
1711	M80S9S(SL)	O-A-31	0	0	0	1 0000	0	0	0	1 0000
1712	H85.9S6 SP(HSU)	O-A-32	-86	143	4	.9987	-62	144	5	9988
1713	H85 9S6.SP(HSL)	O-A-33	399	-31	5	.9996	400	-35	4	9997
1714	M86S3S(SU)	O-A-34	0	0	0	1.0000	0	0	0	1 0000
1715	M86S3S(SL)	O-A-35	-57	11	17	8078	-21	16	35	3595
1716	M86 1S3.SP(HS1)	O-A-36	-65	108	3	.9988	-67	108	6	9976
1717	M86 1S3 SP(HSO)	O-A-37	-199	-91	7	.9984	-197	-86	9	9948
1718	B86S11.9MMRH	O-A-38	15	-14	5	8720	26	-9	4	9562
1719	B86S11 9MMRD	O-A-39	91	-26	17	.9152	108	-25	14	9701
1720	B86S11 9MMRV	O-A-40	62	-8	5	9796	56	-8	8	9566
1721	H86 1S17 SP(HSU)	O-A-41	695	57	5	9999	694	56	4	9999
1722	H86 1S17 SP(HSL)	O-A-42	-755	57	9	9997	-754	67	11	9995
1723	H86 1S6 SP(HSU)	O-A-43	358	-49	4	9997	357	-54	5	9996
1724	H86 1S6.SP(HSL)	O-A-44	-248	112	6	9985	-247	119	6	9993
1725	H88 9S19P(CU)	O-A-45	-183	124	4	9989	-186	125	5	9993

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	COMBINED LOADING @ 240 DEGREE LAG SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1726	H88 5S19P(CL)	O-A-46	-100	109	9	9899	-95	125	9	9958
1727	M86 1S6S(U)	O-A-47	-263	51	8	9976	254	55	4	9995
1728	M86 1S6S(L)	O-A-48	-305	61	15	9936	-287	59	14	9954
1729	H86 1P8 SP(HSU)	O-A-49	313	59	6	9992	316	52	5	9994
1730	H86 1P8 SP(HSL)	O-A-50	-228	-120	7	9990	-239	-113	19	9831
1731	B92S7MZS(BM)	O-A-51	-196	-47	17	9858	-141	-22	18	9560
1732	B92S7MZP(BM)	O-A-52	-10	-5	6	7177	8	-16	5	5078
1733	B86S3MMP(BM)	O-A-53	76	6	5	5880	-79	3	5	9900
1734	B86S3MMS(BM)	O-A-54	90	1	14	9472	-109	9	7	5527
1735	B86S3MZP(BM)	O-A-55	-6	6	7	4230	-5	1	4	4421
1736	B86S3MZS(BM)	O-A-56	-84	6	6	5870	-83	1	5	9902
1737	B80S9MMS(BM)	O-A-57	-49	-7	8	9453	-50	-9	8	9376
1738	B80S9MMP(BM)	O-A-58	324	8	62	9210	172	37	21	9598
1739	B80S9MZS(BM)	O-A-59	72	-10	7	9778	-24	-55	53	4735
1740	W89P2MZ(O)	O-A-60	47	-5	15	8021	44	-2	13	8380
1741	H78S20P(CU)	O-B- 1	-229	209	6	9990	-226	213	6	9991
1742	H79S20P(CL)	O-B- 2	-213	213	4	9996	-213	220	5	9996
1743	B80S11MMP(C)	O-B- 3	-58	6	6	9752	-62	4	6	9615
1744	M80S11P(C)	O-B- 4	0	0	0	1 0000	0	0	0	1 0000
1745	H79 5S20P(FC)	O-B- 5	-167	-62	7	9972	-169	-65	10	9906
1746	H79 5S20P(AC)	O-B- 6	-85	-53	5	9969	-90	-53	7	9847
1747	H79 5S20P(ACL)	O-B- 7	-64	-58	4	9968	-65	-53	4	9922
1748	B64COMMP(C)	O-B- 8	-33	-9	11	8373	-33	0	13	7348
1749	B56S8 SMFRV(BB)	O-B- 9	9	-32	24	5828	12	-1	15	2749
1750	B56S8 SMFRD(BB)	O-B-10	-53	5	18	7878	-44	15	11	9087
1751	B56S8 SMFRH (BB)	O-B-11	-11	-21	19	5980	-2	-24	11	7981
1752	B56P8 SMFRV(BB)	O-B-12	4	-60	30	7609	12	-42	19	8192
1753	B56P8 SMFRD(BB)	O-B-13	-49	-68	19	9431	-46	-54	12	9303
1754	B56P8 SMFRH(BB)	O-B-14	-30	-35	33	6364	-14	-28	12	8019
1755	M64P8S(SUA)	O-B-15	93	-83	26	8957	87	-57	28	9068
1756	M64P8S(SLA)	O-B-16	-79	-26	10	9744	-71	-25	6	9792
1757	M64P8S(SUF)	O-B-17	-19	-34	14	8685	-29	-21	19	5831
1758	M64P8S(SLF)	O-B-18	-171	-2	15	9816	-168	-15	13	9841
1759	B64P11F1P(CU)	O-B-19	43	4	10	8885	74	14	14	9126
1760	B64P11F1P(CL)	O-B-20	125	-5	8	9903	129	-11	9	9884
1761	H61 2S20P(CM)	O-B-21	-467	338	8	9995	-424	339	9	9996
1762	H61 2S20P(CL)	O-B-22	0	0	0	1 0000	0	0	0	1 0000
1763	M60P9 5P(C)	O-B-23	-369	-193	8	9994	-371	-192	6	9993
1764	H58 6P20P(C)	O-B-24	-272	-336	8	9996	-276	-341	5	9997
1765	H61 3P20P(C)	O-B-25	-263	-319	7	.9996	-267	-316	4	9998
1766	H58 6P20P(CU)	O-B-26	0	0	0	1 0000	0	0	0	1 0000
1767	H58 6P20P(CL)	O-B-27	-278	-310	11	.9992	-280	-314	6	9995
1768	M59 5P6P(C)	O-B-28	-43	-3	8	9227	-41	0	7	9318
1769	B80S9MZP(BM)	O-B-29	18	-4	5	8417	21	-5	5	9238
1770	B64P8MMP(BM)	O-B-30	6	-64	20	8771	-2	-50	24	7700
1771	M74S5P(C)	O-B-31	-370	102	9	.9984	-374	106	9	9990
1772	M73S5P(C)	O-B-32	-395	102	7	9991	-393	97	5	9997
1773	M67S5P(C)	O-B-33	-517	122	5	.9997	-510	126	5	9999
1774	M67P5P(UC)	O-B-34	-407	-102	3	9999	-403	-105	2	9999
1775	M67 2P5P(UC)	O-B-35	-438	-109	7	.9996	-439	-109	7	9992
1776	M69P5P(LP)	O-B-36	58	44	4	9951	62	44	5	9883
1777	M60P6P(C)	O-B-37	-461	-141	7	.9996	-460	-139	8	9992
1778	H94S20P(FC)	O-B-38	-20	-24	4	9743	-22	-19	7	8579
1779	M77P10 1P	O-B-39	-500	-180	4	9999	-507	-175	7	9995
1780	H94S20P(AC)	O-B-40	37	-22	6	9383	29	-19	10	8960
1781	H94S16 5P(CU)	O-B-41	-3	-13	4	8954	-1	-9	3	8442
1782	H94S16 5P(CL)	O-B-42	-43	-19	5	9811	-48	-17	7	9396
1783	H91P19P(C)	O-B-43	-19	22	5	9279	-26	20	7	9406
1784	M79S8 5P	O-B-44	-231	170	7	9984	-230	175	10	9984
1785	B86P911P	O-B-45	-85	4	6	.9862	-85	2	5	9911
1786	H91P19P(AC)	O-B-46	38	35	4	.9902	41	37	6	9678
1787	H91P19P(FC)	O-B-47	-1	-34	6	9608	4	-34	6	9644
1788	H97 9P14P(LF)	O-B-48	-3	49	18	.8930	24	41	8	9492
1789	H101P20P(AC)	O-B-49	-94	-16	7	.9888	-93	-19	5	9917
1790	H80P19P18(FC)	O-B-50	-250	-205	5	9996	-257	-204	6	9990
1791	H79 5P18P(CU)	O-B-51	-63	-211	6	.9991	-64	-211	5	9991
1792	H79 5P18P(CL)	O-B-52	-84	-215	6	.9992	-83	-214	4	9994
1793	M63 9P13S(C)	O-B-53	-369	-88	7	.9993	-380	-71	6	9994
1794	H79 9P15P(C)	O-B-54	14	-198	7	.9981	12	-200	8	9980
1795	B64P12 9P(LP)	O-B-55	-108	-116	19	9817	-143	-101	18	9679
1796	B64P12 9P(SC)	O-B-56	63	11	7	9749	69	15	6	9783
1797	H65P22P(C)	O-B-57	73	19	15	.9321	66	33	9	9577
1798	B64P 1MMP(C)	O-B-58	-119	0	4	.9972	-118	1	2	9990
1799	B64S 1MMP(C)	O-B-59	-5	-23	14	7126	-7	-16	19	3704
1800	B108P1MMP(D)	O-B-60	-15	4	9	.5128	-18	-1	9	6395

TABLE B.3 - STRAIN SENSITIVITIES FROM STATISTICAL ANALYSIS OF ASEM STATIC TEST DATA

				VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1	B8COMMP	9- - 1		65	6	9820	4	-2	6	5665	2
2	B8P4MMP	9- - 2		57	13	8344	1	21	14	8116	4
3	B8P7MMP	9- - 3		1	35	1982	3	11	25	2030	2
4	B8COMFP	9- - 4		0	0	1 0000	1	90	26	7454	2
5	B8P2MFP	9- - 5		-56	5	9929	1	44	5	9817	2
6	B8S4MFP	9- - 6		73	15	9023	1	-24	46	3830	3
7	B8S7MMP	9- - 7		14	2	9940	1	-14	1	9572	2
8	B8S2MFP	9- - 8		-50	4	9975	1	-42	4	9705	2
9	B8COHHRH	9- - 9	YES	-29	121	0079	1	0	0	1 0000	2
10	B8COHHRD	9- -10		-384	20	9939	3	13	2	9890	2
11	B8COHHRV	9- -11		44	10	8692	3	-6	2	8482	2
12	B8P111RV	9- -12	YES	0	1	3765	3	0	0	1149	2
13	B8P111RD	9- -13		257	15	9881	1	-77	3	9941	2
14	B8P111RH	9- -14		-21	4	9944	1	-12	4	8977	2
15	B8P5FFRV	9- -15		87	4	9921	1	186	3	9996	2
16	B8P5FFRD	9- -16		157	5	9956	1	80	3	9973	2
17	B8P5FFRH	9- -17	YES	-155	4	9985	1	-92	5	9986	3
18	B8S111RH	9- -18	YES	-86	6	9896	3	-10	2	8276	2
19	B8S111RD	9- -19	YES	0	0	1 0000	1	0	0	1 0000	2
20	B8S111RV	9- -20		42	10	9299	4	24	4	9720	2
21	B8S5FFRH	9- -21		-121	7	9952	1	84	9	9905	3
22	B8S5FFRD	9- -22		164	25	9613	3	-135	25	9613	3
23	B8S5FFRV	9- -23		-7	3	9903	1	-332	9	9990	4
24	B8COMMS	9- -24		-272	6	9193	1	-2	4	8931	2
25	B8P4MMS	9- -25	YES	0	0	1 0000	1	0	0	1 0000	2
26	B8P7MMS	9- -26		-105	2	9986	3	8	2	9986	3
27	B8COMFS	9- -27		0	3	8058	1	[illegible]	2	9173	2
28	B8P2MFS	9- -28		9	5	9644	1	-14	4	8696	2
29	B8S4MMS	9- -29		-234	3	9996	1	37	3	9759	2
30	B8S7MMS	9- -30	YES	[illegible]	0	1 0000	1	0	0	1 0000	2
31	B8S2MFS	9- -31		10	6	9706	1	4	2	9806	2
32	M9COS	9- -32		-31	1	9991	1	-9	3	8319	2
33	M9P11P	9- -33		40	3	9783	1	-4	6	9149	3
34	M9S11P	9- -34		40	2	9920	1	9	3	9408	2
35	M11COS	9- -35	YES	0	0	1 0000	1	0	0	1 0000	2
36	M11S11P	9- -36		24	6	9305	1	18	4	9701	2
37	M13COS	9- -37		-62	4	9943	1	-3	4	2890	2
38	M13P12P	9- -38	YES	0	0	1 0000	1	0	0	1 0000	2
39	M13S12P	9- -39		-19	3	9903	1	27	3	9768	2
40	M15COS	9- -40		-91	4	9981	1	0	4	9263	2
41	M15S13P	9- -41		-80	5	9960	1	-7	4	9724	2
42	M17COS	9- -42		-104	3	9987	1	-1	4	8069	2
43	M17P13P	9- -43		-38	4	9947	1	-32	6	9055	2
44	M17S13P	9- -44		-33	4	9937	1	42	3	9920	2
45	M19COS	9- -45		-141	2	9997	1	-6	3	8157	2
46	M19S13P	9- -46		-25	3	9939	1	87	7	9888	3
47	M23COS	9- -47		-141	2	9997	1	4	5	9004	2
48	M23S13 9P	9- -48		-188	3	9995	1	104	4	9968	2
49	M25P13P	9- -49		-179	3	9996	1	-123	3	9985	2
50	M25S13P	9- -50		-175	2	9997	1	128	2	9995	2
51	M27COS	9- -51		-125	21	9614	1	5	33	8787	3
52	M27S14P	9- -52		-213	11	9952	3	170	11	9952	3
53	M29COS	9- -53	YES	0	0	1 0000	1	0	0	1 0000	2
54	M29P14P	9- -54	YES	0	0	1 0000	1	0	0	1 0000	2
55	M29S14P	9- -55		-237	3	9996	1	188	3	9994	2
56	M31COS	9- -56		-322	2	9999	1	-3	5	9312	2
57	M31S14P	9- -57		-347	2	9999	1	212	2	9998	2
58	H24 1S20P(C)	9- -58		-214	2	9998	1	119	2	9995	2
59	F9S4P(C)	9- -59		-30	2	9959	1	80	2	9991	2
60	H36P18 5(D)	9- -60		1	1	9953	1	[illegible]	2	9180	2
61	B16COMMP	9-A- 1		168	7	9962	3	-2	7	9962	3
62	B16COMMS	9-A- 2		-272	33	9780	1	-5	37	9501	3
63	B16P4MMP	9-A- 3		197	16	9824	4	42	15	7843	2
64	B16P4MMS	9-A- 4	YES	8	10	2641	1	0	0	1 0000	2
65	B16P8MMP	9-A- 5		202	31	9420	1	29	31	9532	4
66	B16P8MMS	9-A- 6		3	20	3455	4	73	18	8313	2
67	B16COMFP	9-A- 7		78	10	9624	4	2	8	5544	2
68	B16COMFS	9-A- 8		103	9	9708	1	-4	4	9073	2
69	B16P3MFP	9-A- 9		-28	31	7240	3	59	31	7240	3
70	B16P3MFS	9-A-10		269	27	9784	4	17	22	3366	2
71	B16COF1P	9-A-11		109	12	9654	1	6	5	7552	2
72	B16COF1S	9-A-12	YES	0	1	1149	4	0	1	1149	4
73	B16P2F1P	9-A-13		129	11	9771	1	18	10	7691	2
74	B16P2F1S	9-A-14		-22	10	9648	1	4	13	5525	2
75	B16S4MMP	9-A-15		137	12	9824	3	-18	8	5504	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
76	B16S4MMS	9-A-16		-153	7	9958	3	-18	5	7550	2
77	B16S8MMP	9-A-17	YES	154	16	9728	1	-47	11	9171	2
78	B16S3MMS	9-A-18	YES	-19	17	6987	3	-51	13	8595	2
79	B16S3MFP	9-A-19	YES	-6	7	2641	1	0	0	1 0000	2
80	B16S3MFS	9-A-20		233	29	9616	3	-38	19	6717	2
81	B16S2FIP	9-A-21		159	12	9814	1	-12	14	4289	2
82	B16S2FIS	9-A-22		-123	15	9608	4	-24	15	9608	4
83	B16COHHRH	9-A-23		-25	23	7866	1	33	6	8555	1
84	B16COHHRD	9-A-24		-70	25	876	1	16	4	9633	2
85	B16COHHRV	9-A-25	YES	9	12	264	1	0	0	1 0000	2
86	B16P31IRV	9-A-26		127	12	9704	1	23	5	9696	2
87	B16P31IRD	9-A-27		147	7	99		-10	6	7944	2
88	B16P31IRH	9-A-28		-215	11	9953	1	22	17	9838	3
89	B16P7 SFFRV	9-A-29		789	45	9923	4	71	19	8835	2
90	B16P7 SFFRD	9-A-30	YES	-5	7	2642	1	0	0	1 0000	2
91	B16P7 SFFRH	9-A-31		-390	10	9988	1	44	16	9953	3
92	B16S31IRH	9-A-32		-188	10	9954	1	-44	14	9892	3
93	B16S31IRD	9-A-33		221	9	9954		49	12	9261	2
94	B16S31IRV	9-A-34		216	12	9912	1	-8	10	5083	2
95	B16S7 SFFRH	9-A-35		7	9	264	1	-13	20	0383	2
96	B16S7 SFFRD	9-A-36		404	34	9824	1	-41	36	9743	3
97	B16S7 SFFRV	9-A-37		653	50	9864	1	-133	12	9800	2
98	F9CONA	9-A-38		-41	10	9361	1	13	14	8672	3
99	F13CONA	9-A-39		-30	3	9930	1	-2	4	6130	2
100	I17COP	9-A-40		216	3	9993	1	1	4	9258	2
101	I21 3COP	9-A-41		176	6	9955	1	-4	7	8195	2
102	F25CONA	9-A-42		-27	8	8579	4	5	8	8539	4
103	F29CONA	9-A-43		-37	6	9413	3	8	4	9602	2
104	I9COP	9-A-44	YES	4	5	2643	1	0	0	0000	2
105	I13COP	9-A-45		36	4	9702	3	-10	4	8743	2
106	F17CONA	9-A-46		[illegible]	4	9909	1	0	3	8929	2
107	F21 3CONA	9-A-47		-29	10	7538	3	5	10	7538	3
108	H9COP	9-A-48		72	8	9563	1	-1	5	8361	2
109	H11COP	9-A-49		66	15	8927	4	2	7	7219	2
110	H13COP	9-A-50	YES	7	9	2642	1	0	0	1 0000	2
111	H15COP	9-A-51			21	2110	3	4	21	3262	2
112	H17COP	9-A-52		-3	56	1996	3	6	56	1996	3
113	H19COP	9-A-53	YES	10	3	2641	1	0	0	1 0000	2
114	H23COP	9-A-54		190	5	9981	1	-1	5	8799	2
115	H25COP	9-A-55		747	4	9994	1	2	3	9392	2
116	H27COP	9-A-56		37	4	9997	1	-4	5	9317	2
117	H29COP	9-A-57		449	3	9999		2	2	9535	2
118	H31COP	9-A-58		534	6	9997	1	-3	3	7958	2
119	H47COP	9-A-59		696	5	9999	1	-2	3	9319	2
120	H1259 (S D)	9-A-60		3	4	9687	1	-1	3	7688	2
121	B24COMMP	9-B-1		105	6	9925	4	-8	6	9925	4
122	B24COMMS	9-B-2		-790	43	9450	3	24	43	9450	3
123	B24S4MMP	9-B-3		44	6	9695	4	-15	6	9695	4
124	B24P4MMS	9-B-4	YES	0	0	1 0000	1	0	0	1 0000	2
125	B24S7MMP	9-B-5		43	3	9763	1	7	7	2270	2
126	B24P7MMS	9-B-6		-60	14	9598	3	88	12	9563	2
127	B24COMFP	9-B-7		43	6	9615	4	3	3	9007	2
128	B24COMFS	9-B-8		-12	5	9848	1	7	8	8390	3
129	B24S4MFP	9-B-9		4	6	9697	1	-18	4	9019	2
130	B24P5MFS	9-B-10		149	22	9339	1	45	13	8678	2
131	B24LOFIP	9-B-11		60	8	9360	1	8	4	8983	2
132	B24LOFIS	9-B-12	YES	0	1	1198	4	0	1	1198	4
133	B24S3FIP	9-B-13		47	12	9332	4	-18	4	8399	2
134	B24P3FIS	9-B-14		-48	8	9871	1	27	6	9626	2
135	B24P4MMP	9-B-15		80	7	9795	4	19	5	8664	2
136	B24S4MMS	9-B-16		-171	6	9982	1	-52	5	9551	2
137	B24P7MMP	9-B-17	YES	99	4	9952	1	9	5	9940	3
138	B24S7MMS	9-B-18	YES	-44	18	8963	1	-51	9	9269	2
139	B24P5MFP	9-B-19	YES	0	0	1 0000	1	0	0	1 0000	2
140	B24S4MFS	9-B-20		55	9	9496	4	-10	9	9496	4
141	B24P3FIP	9-B-21		88	12	9334	1	20	5	9364	2
142	B24S3FIS	9-B-22		-44	7	9601	3	-15	6	6056	2
143	B24COHHRH	9-B-23		-207	9	9945	3	31	8	9181	2
144	B24COHHRD	9-B-24		-90	9	9898	1	26	8	8844	2
145	B24COHHRV	9-B-25	YES	0	0	1 0000	1	0	0	1 0000	2
146	B24P41IRH	9-B-26		354	12	9968	3	88	11	9714	2
147	B24P41IRD	9-B-27		-114	6	9916	3	39	6	9916	3
148	B24P41IRV	9-B-28		117	8	9807	1	12	6	8403	2
149	B24P9FFRV	9-B-29		408	26	9887	1	142	19	9628	2
150	B24P9FFRD	9-B-30	YES	0	0	1 0000	1	0	0	1 0000	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
151	B24P9FFRH	9-B-31		-242	11	.9945	4	-3	11	.9945	4
152	B24S411RH	9-B-32		-353	15	.9969	3	-77	12	.9487	2
153	B24S411RD	9-B-33		0	0	1.0000	1	-39	5	.9414	2
154	B24S411RV	9-B-34		82	7	.9654	1	-13	6	.7079	2
155	B24S9FFRH	9-B-35		-171	7	.9977	1	-33	13	.9904	3
156	B24S9FFRD	9-B-36		111	9	.9721	1	-41	9	.8445	2
157	B24S9FFRV	9-B-37		258	17	.9887	1	-38	12	.7160	2
158	125COP	9-B-38		342	3	.9997	1	-8	5	.9994	4
159	129COP	9-B-39		292	2	.9999	1	0	3	.9996	4
160	B32C0 1M2P(C)	9-B-40		-244	4	.9994	1	5	4	.9422	2
161	M31 9C0P(C)	9-B-41		-563	3	1.0000	1	11	4	.9685	2
162	M22 6S9 5P(C)	9-B-42		-268	5	.9994	1	71	7	.9982	3
163	M23P 3P(C)	9-B-43		-186	2	.9998	1	-35	3	.9626	2
164	M22.5P 3P(C)	9-B-44		-182	3	.9994	1	-13	3	.8781	2
165	M12.5P 4P(C)	9-B-45		-48	3	.9976	1	-4	4	.9852	3
166	M12.5P 5P(C)	9-B-46		-49	2	.9988	1	-6	2	.8995	2
167	M12.5P4P(C)	9-B-47		-69	3	.9984	1	-17	3	.8466	2
168	B24P11 6P(SC)	9-B-48		129	12	.9705	1	47	6	.9719	2
169	H23 9S8 5P(HSL)	9-B-49		-292	4	.9997	1	104	4	.9994	3
170	H23 9S8 5P(HSU)	9-B-50		392	4	.9998	1	-17	5	.9996	4
171	H23 9P8 5P(HSL)	9-B-51		-298	15	.9931	4	-73	15	.9931	4
172	H23 9P8 5P(HSU)	9-B-52		345	10	.9978	4	61	6	.9806	2
173	M60S9P(C)	9-B-53	YES	0	0	1.0000	1	0	0	1.0000	2
174	M48 1P8P(C)	9-B-54		-336	5	.9995	1	-133	4	.9974	2
175	B48S5MMS(BM)	9-B-55		60	16	.8505	4	26	2	.9884	2
176	B48S5MZP(BM)	9-B-56		-145	24	.9327	3	37	3	.9955	2
177	B48S5MZS(BM)	9-B-57		-104	35	.7950	3	24	7	.9417	2
178	B48S5 1MZP(BM)	9-B-58		-53	13	.8599	3	17	13	.8599	3
179	M49 5S9P(IF)	9-B-59		0	0	1.0000	1	160	3	.9993	2
180	H28P17 5(O)	9-B-60		1	2	.1205	1	0	2	.2484	4
181	B40COTTP	8- -1	YES	0	1	.2019	1	1	1	.5892	3
182	B40COTTS	8- -2	YES	1	1	.1669	4	0	0	.1596	2
183	B40P4TTP	8- -3	YES	0	0	.1269	4	0	0	.1269	4
184	B40P4TTS	8- -4	YES	0	0	.2976	1	0	1	.2343	2
185	B40P8TTP	8- -5	YES	0	0	.2976	1	0	0	1.0000	2
186	B40P8TTS	8- -6	YES	1	1	.6649	1	0	1	.1715	2
187	B40C0ZTP	8- -7	YES	0	0	.2976	1	0	0	.1929	2
188	B40C0ZTS	8- -8	YES	0	0	1.0000	1	0	0	1.0000	2
189	B40P4ZTP	8- -9	YES	0	1	.5101	1	0	0	1.0000	2
190	B40P4ZTS	8- -10	YES	0	0	.3830	1	0	0	.2058	4
191	B40P8ZTP	8- -11	YES	0	2	.9516	1	0	2	.1010	3
192	B40P8ZTS	8- -12	YES	-1	1	.4707	1	0	1	.1284	2
193	B40C0MZP	8- -13	YES	0	1	.6857	1	0	0	1.0000	2
194	B40C0MZS	8- -14	YES	0	0	.2976	1	0	1	.2088	3
195	B40C0MFP	8- -15	YES	0	1	.3123	1	1	2	.5741	2
196	B40C0MFS	8- -16	YES	-1	1	.6631	1	0	0	1.0000	2
197	B40P7MFP	8- -17	YES	0	1	.3526	4	0	0	1.0000	2
198	B40P7MFS	8- -18	YES	-1	1	.4598	1	0	0	1.0000	2
199	B40C0FIP	8- -19	YES	0	0	1.0000	1	0	0	1.0000	2
200	B40C0FIS	8- -20	YES	0	0	.1262	1	0	0	.3275	4
201	B40P6FIP	8- -21	YES	0	0	.1129	4	0	0	.1129	4
202	B40P6FIS	8- -22	YES	0	0	.0981	3	0	0	.0981	3
203	B40S4TTP	8- -23	YES	0	0	.2339	4	0	0	.2339	4
204	B40S4TTS	8- -24	YES	0	0	1.0000	1	0	0	1.0000	2
205	B40S8TTP	8- -25	YES	0	0	1.0000	1	0	0	1.0000	2
206	B40S8TTS	8- -26	YES	-1	0	.5882	1	0	1	.2346	2
207	B40S4ZTP	8- -27	YES	0	0	1.0000	1	0	0	1.0000	2
208	B40S4ZTS	8- -28	YES	0	0	.1523	1	0	0	.2513	4
209	B40S8ZTP	8- -29	YES	0	1	.2119	4	0	1	.2119	4
210	B40S8ZTS	8- -30	YES	0	0	.2046	3	0	0	1.0000	2
211	B40S4MFP	8- -31	YES	0	0	.1598	4	0	0	.1598	4
212	B40S4MFS	8- -32	YES	0	0	1.0000	1	0	0	1.0000	2
213	B40S6FIP	8- -33	YES	0	0	.0981	3	0	0	.0981	3
214	B40S6FIS	8- -34	YES	1	1	.2917	4	0	0	1.0000	2
215	B40C0HHRH	8- -35	YES	0	1	.1228	4	0	0	1.0000	2
216	B40C0HHRD	8- -36	YES	0	1	.1839	4	0	0	1.0000	2
217	B40C0HHRV	8- -37	YES	1	1	.2684	1	-1	1	.3145	2
218	B40P611RH	8- -38	YES	0	0	.1683	4	0	0	.1683	4
219	B40P611RD	8- -39	YES	0	1	.2216	4	0	1	.2216	4
220	B40P611RV	8- -40	YES	-1	1	.2409	1	0	1	.0901	4
221	B40P9FIRV	8- -41	YES	0	1	.0388	3	0	0	.2158	2
222	B40P9FIRD	8- -42	YES	0	1	.2660	3	0	0	1.0000	2
223	B40P9FIRH	8- -43	YES	0	1	.2049	4	0	0	1.0000	2
224	B40P12FFRV	8- -44	YES	0	0	.1683	4	0	0	.1683	4
225	B40P12FFRD	8- -45	YES	1	1	.2566	4	0	0	1.0000	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
226	B40P12FFRH	8- -46	YES	0	0	0981	4	0	0	1 0000	2
227	B40S6IIRV	8- -47	YES	-1	1	3393	1	0	0	1 0000	2
228	B40S6IIRD	8- -48	YES	0	1	1945	3	0	0	1731	2
229	B40S6IIRH	8- -49	YES	0	1	1014	1	0	0	1 0000	2
230	B40S9FIRH	8- -50	YES	0	0	0819	3	0	0	0819	3
231	B40S9FIRD	8- -51	YES	-1	1	3723	3	0	0	3404	2
232	B40S9FIRV	8- -52	YES	0	0	1 0000	1	0	0	1 0000	2
233	B40S12FFRH	8- -53	YES	0	1	2241	4	0	0	7538	2
234	B40S12FFRD	8- -54	YES	0	0	2081	3	0	0	1321	2
235	B40S12FFRV	8- -55	YES	0	0	1 0000	1	0	0	1 0000	2
236	B48COMMP	8- -56	YES	1	1	3500	4	0	1	3500	4
237	B48S8 4MFRV	8- -57	YES	0	0	0460	4	0	0	1 0000	2
238	B48S8 4MFRD	8- -58	YES	1	1	2213	4	0	1	2213	4
239	B48S8 4MFRH	8- -59	YES	1	1	2872	1	0	1	1944	2
240	W46P22T(D)	8- -60	YES	0	1	2497	1	0	0	1 0000	2
241	B48COTTP	8-A- 1	YES	0	1	2885	3	-1	1	1874	2
242	B48COTTS	8-A- 2	YES	1	1	4256	4	0	0	2768	2
243	B48P4TTP	8-A- 3	YES	0	1	1062	3	0	0	2241	2
244	B48P4TTS	8-A- 4	YES	-1	1	4529	1	0	1	1517	4
245	B48P8TTP	8-A- 5	YES	0	0	0668	3	0	1	0981	3
246	B48P8TTS	8-A- 6	YES	-1	1	6808	1	0	1	2582	3
247	B48COZTP	8-A- 7	YES	0	0	0481	4	0	0	1 0000	2
248	B48COZTS	8-A- 8	YES	0	1	2324	1	0	0	1 0000	2
249	B48P4ZTP	8-A- 9	YES	0	1	4902	1	0	0	1 0000	2
250	B48P4ZTS	8-A-10	YES	-1	1	5899	1	1		3985	2
251	B48P8ZTP	8-A-11	YES	0	0	1594	1	0	1	2627	2
252	B48P8ZTS	8-A-12	YES	0	0	1269	3	0	0	1 0000	2
253	B48COMZP	8-A-13	YES	0	1	0104	4	0	0	0918	2
254	B48COMZS	8-A-14	YES	0	0	1673	1	0	0	2116	3
255	B48COMFP	8-A-15	YES	0	0	1350	4	0	0	1 0000	2
256	B48COMFS	8-A-16	YES	0		1714	1	0	0	1 0000	2
257	B48P6MFP	8-A-17	YES	0	0	1020	1	0	0	1 0000	2
258	B48P6MFS	8-A-18	YES	0	1	1001	3	0	0	1001	3
259	B48COFIP	8-A-19	YES	0	0	1 0000	1	0	0	1 0000	2
260	B48COFIS	8-A-20	YES	0	0	1236	4	0	0	1236	4
261	B48P6FIP	8-A-21	YES	0	0	1598	4	0	0	1 0000	2
262	B48P6FIS	8-A-22	YES	0	0	0924	4	0	0	0924	4
263	B48S4TTP	8-A-23	YES	0	1	2832	4	0	0	1731	2
264	B48S4TTS	8-A-24	YES	0	0	1 0000	1	0	0	1 0000	2
265	B48S8TTP	8-A-25	YES	0	0	1 0000	1	0	0	1 0000	2
266	B48S8TTS	8-A-26	YES	1	1	3483	4	0	1	3483	4
267	B48S4ZTP	8-A-27	YES	0	0	1 0000	1	0	0	1 0000	2
268	B48S4ZTS	8-A-28	YES	0	1	2435	4	0	1	2435	4
269	B48S8ZTP	8-A-29	YES	0	0	1 0000	1	0	0	1 0000	2
270	B48S8ZTS	8-A-30	YES	0	0	0856	1	0	0	1 0000	2
271	B48S6MFP	8-A-31	YES	0	0	3563	1	0	1	2022	2
272	B48S6MFS	8-A-32	YES	0	0	1 0000	1	0	0	1 0000	2
273	B48S6FIP	8-A-33	YES	-1	1	0763	1	0	0	1 0000	2
274	B48S6FIS	8-A-34	YES	0	1	1847	4	0	1	2055	2
275	B48COMMRH	8-A-35	YES	-1	1	3505	4	0	1	0309	2
276	B48COMMRD	8-A-36	YES	0	1	2336	3	0	1	1966	2
277	B48COMMRV	8-A-37	YES	0	1	1684	4	0	1	1684	4
278	B48P7IIRV	8-A-38	YES	0	0	0852	3	0	0	0852	3
279	B48P7IIRD	8-A-39	YES	0	0	1349	3	0	0	1349	3
280	B48P7IIRH	8-A-40	YES	0	1	2052	1	0	1	2220	2
281	B48P10FIRV	8-A-41	YES	0	1	2120	1	0	0	2057	2
282	B48P10FIRD	8-A-42	YES	0	0	1708	3	0	0	1 0000	2
283	B48P10FIRH	8-A-43	YES	0	1	0779	3	0	0	1 0000	2
284	B48P12FFRV	8-A-44	YES	0	0	0713	4	0	0	0713	4
285	B48P12FFRD	8-A-45	YES	0	1	2175	3	0	0	1 0000	2
286	B48P12FFRH	8-A-46	YES	0	1	1031	4	0	0	1 0000	2
287	B48S7IIRH	8-A-47	YES	0	1	2035	1	0	0	2549	2
288	B48S7IIRD	8-A-48	YES	0	1	2133	1	0	1	2464	2
289	B48S7IIRV	8-A-49	YES	0	0	1395	1	0	0	1 0000	2
290	B48S10FIRH	8-A-50	YES	-1	1	1152	1	0	0	1 0000	2
291	B48S10FIRD	8-A-51	YES	0	1	1169	3	0	0	1 0000	2
292	B48S10FIRV	8-A-52	YES	0	0	1 0000	1	0	0	1 0000	2
293	B48S12IIRH	8-A-53	YES	0	1	1965	4	0	1	1965	4
294	B48S12IIRD	8-A-54	YES	1	1	5747	4	0	1	5747	4
295	B48S12IIRV	8-A-55	YES	0	0	1 0000	1	0	0	1 0000	2
296	H48 1S20P(C)	8-A-56	YES	-4	2	7320	4	0	2	7320	4
297	B48S13MMS(C)	8-A-57	YES	0	0	2214	4	0	0	2214	4
298	B56S9IIP(C)	8-A-58	YES	0	0	3411	1	0	0	1 0000	2
299	B56P4MMS(C)	8-A-59	YES	0	1	1339	1	0	3	3704	3
300	B40P1(DK)	8-A-60	YES	0	1	2025	1	0	0	1 0000	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
301	M30 4P10W	8-B-1	YES	-1	1	3269	4	0	1	2407	2
302	M30 4P10 SP	8-B-2	YES	1	1	2685	4	0	0	1.0000	2
303	M30 4P11W	8-B-3	YES	0	1	1890	3	0	1	4379	2
304	M30 4P11 SP	8-B-4	YES	0	1	2671	1	0	0	1607	2
305	M30 4P12W	8-B-5	YES	0	1	2672	4	0	1	1642	2
306	M30 4P13W	8-B-6	YES	0	0	1897	4	0	0	1897	4
307	M31 2P10W	8-B-7	YES	0	1	2078	1	0	0	1.0000	2
308	M31 2P10 SPRL	8-B-8	YES	0	1	1267	4	0	0	1.0000	2
309	M31 2P10 SPRD	8-B-9	YES	0	0	2116	4	0	0	2116	4
310	M31 2P10 SPRH	8-B-10	YES	0	0	0924	4	0	0	0924	4
311	M31 2P11W	8-B-11	YES	0	1	1958	4	0	1	1958	4
312	M31 2P11 SP	8-B-12	YES	0	0	0508	4	0	0	0508	4
313	M31 2P12W	8-B-13	YES	0	1	5997	1	0	1	0781	2
314	M31 2P13W	8-B-14	YES	0	0	2044	3	0	0	2044	3
315	M31 2P14W	8-B-15	YES	0	1	2450	3	0	0	1.0000	2
316	840P8MMRH(BB)	8-B-16	YES	1	1	0885	3	0	1	1474	2
317	832P10MMP	8-B-17	YES	1	1	3174	4	0	0	0635	2
318	840P8MMRD(BB)	8-B-18	YES	-1	1	2879	1	0	0	1369	2
319	832P10 SMMP	8-B-19	YES	0	0	1.0000	1	0	0	1.0000	2
320	840P8MMRV(BB)	8-B-20	YES	0	0	1683	4	0	0	1683	4
321	M31 8P11 2PRH	8-B-21	YES	0	1	2594	4	0	0	1.0000	2
322	M31 8P11 2PRD	8-B-22	YES	0	0	1236	3	0	0	1236	3
323	M31 8P11 2PRL	8-B-23	YES	0	0	0714	4	0	0	0714	4
324	M31 8P11 SP	8-B-24	YES	0	0	1.0000	1	0	0	1.0000	2
325	M31 8P12W	8-B-25	YES	0	0	1.0000	1	0	0	1.0000	2
326	M31 8P13W	8-B-26	YES	-1	1	3847	1	1	1	8194	4
327	M31 8P14W	8-B-27	YES	0	0	1.0000	1	0	0	1.0000	2
328	M32 4P10W	8-B-28	YES	0	0	0713	4	0	0	0713	4
329	M32 4P10 5P	8-B-29	YES	0	0	0785	1	0	0	1.0000	2
330	M32 4P10 7P	8-B-30	YES	0	0	1129	3	0	0	1.0000	2
331	M32 4P11 1P	8-B-31	YES	0	0	0785	1	0	1	3875	4
332	M32 4P11 3P	8-B-32	YES	0	0	1.0000	1	0	0	1.0000	2
333	M32 4P11 5PRH	8-B-33	YES	0	0	1129	4	0	0	1129	4
334	M32 4P11 5PRD	8-B-34	YES	0	0	0955	1	0	0	1.0000	2
335	M32 4P11 5PRL	8-B-35	YES	0	0	1481	3	0	0	2697	2
336	M32 4P12W	8-B-36	YES	0	0	2461	1	0	0	1.0000	2
337	M32 4P13W	8-B-37	YES	0	1	2833	1	0	1	1771	3
338	M32 4P14W	8-B-38	YES	0	0	1.0000	1	0	1	2199	2
339	M31 2S11W	8-B-39	YES	0	1	.1601	3	0	1	1601	3
340	M31 2S12W	8-B-40	YES	0	0	1129	4	0	0	1129	4
341	M31 2S13W	8-B-41	YES	0	1	4061	1	-1	1	1349	2
342	M31 2S14W	8-B-42	YES	0	1	0857	4	0	0	1.0000	2
343	M31 8S11W	8-B-43	YES	0	1	1207	1	0	0	1.0000	2
344	M31 8S11 2PRL	8-B-44	YES	0	0	1347	4	0	0	1347	4
345	M31 8S11 2PRD	8-B-45	YES	0	0	1981	4	0	0	1981	4
346	M31 8S11 2PRH	8-B-46	YES	0	1	2494	1	0	0	1.0000	2
347	M31 8S12W	8-B-47	YES	0	1	2416	1	0	0	1.0000	2
348	M31 8S13W	8-B-48	YES	0	1	1801	3	0	1	1801	3
349	M31 8S14W	8-B-49	YES	0	0	1022	4	0	0	1.0000	2
350	M32 6S10W	8-B-50	YES	0	1	2077	4	0	0	2257	2
351	M32 6S10 7P	8-B-51	YES	0	1	2492	1	0	0	1.0000	2
352	M32 6S11 3P	8-B-52	YES	0	0	1.0000	1	0	0	1.0000	2
353	M32 6S12W	8-B-53	YES	-1	1	1405	4	0	0	2099	2
354	M32 6S13W	8-B-54	YES	1	1	4600	4	0	1	4600	4
355	M32 6S14W	8-B-55	YES	0	0	1.0000	1	0	0	1.0000	2
356	H24 1S17 SP(HSL)	8-B-56	YES	0	1	6554	1	-1	2	7042	4
357	H24 1S17 SP(HSU)	8-B-57	YES	-1	1	2739	1	-1	1	4266	3
358	H24 2S20 SP(HSL)	8-B-58	YES	0	1	1987	1	0	2	7558	2
359	H24 2S20 SP(HSU)	8-B-59	YES	0	1	2478	1	0	1	5687	2
360	WS2P22T(D)	8-B-60	YES	0	1	2462	1	0	1	2445	4
361	M21P13 SP	7- - 1		0	0	1.0000	1	31	3	9916	2
362	M21P12W	7- - 2		-5	10	0636	4	0	10	0636	4
363	M21P6W	7- - 3		-206	4	.9993	1	-60	9	9005	2
364	M21P2W	7- - 4		-200	3	9996	1	-32	4	9493	2
365	M21C0W	7- - 5	YES	0	0	1.0000	1	0	0	1.0000	2
366	M21S2W	7- - 6		-192	29	.9413	1	27	22	5576	2
367	M21S4W	7- - 7		-241	2	.9999	1	34	4	9890	2
368	M21S6W	7- - 8		-192	3	9991	3	73	2	9983	2
369	M21S8W	7- - 9		-194	3	.9996	4	77	3	9996	4
370	M21S10W	7- -10		-158	3	9993	1	86	3	9975	2
371	M21S11 SP	7- -11		-144	2	9994	3	73	2	9994	3
372	M21S12W	7- -12		-93	2	9995	1	86	2	9994	2
373	M21S12 SP	7- -13		-75	3	.9988	1	72	4	9961	2
374	M21S13W	7- -14		-110	3	.9988	1	86	3	9980	2
375	M21S13 SP	7- -15		-47	4	9929	1	100	4	9974	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
376	H16 2S15P(CU)	7- -16		.134	3	9989	1	50	3	9945	2
377	H21C0W	7- -17		170	7	9934	1	8	7	8529	2
378	H21S2W	7- -18		169	8	9933	1	26	7	[illegible]	2
379	H21P2W	7- -19		167	4	9985	3	.25	4	9985	3
380	H21S5W	7- -20		147	2	9995	1	29	2	9937	2
381	H21S7W	7- -21		103	2	9987	1	36	2	9952	3
382	H21P7W	7- -22		79	8	9523		.30	[illegible]	6735	2
383	H21S9W	7- -23		67	1	9989	1	51	[illegible]	9988	2
384	H21S11W	7- -24		.132	[illegible]	9995	1	85	2	9989	[illegible]
385	H21P11W	7- -25		74	2	9964	1	.56	3	[illegible]	2
386	H21S13W	7- -26		60	3	9952	1	64	3	9985	3
387	H21S13.5P	7- -27		7	2	7448	1	81	3	9979	4
388	H21P13.5P	7- -28		.16	2	9994	3	.84	2	9990	2
389	H21S14W	7- -29		22	37	8014	1	67	145	1136	3
390	H21S16W	7- -30		.78	2	9991	1	80	2	9990	2
391	H21P16W	7- -31		.115	2	9994	1	.76		9993	2
392	H21S18W	7- -32		66	3	9959	1	56	4	9902	2
393	H21P18W	7- -33		.158	4	9992	3	.83	4	9935	2
394	T33C0W	7- -34		.39	3	9873	3	5	3	9873	3
395	T35C0W	7- -35		32	13	6146	1	2	14	2360	3
396	T37C0W	7- -36		26	47	5429	1	.18	45	5616	2
397	T39C0W	7- -37		22	45	0915	1	7	51	1543	4
398	T41C0W	7- -38		.37	25	3728	1	15	21	0613	2
399	T43C0W	7- -39		.15	[illegible]	9974	1	.1	2	8073	2
400	T45C0W	7- -40		.8	2	9053	3	[illegible]	1	6298	2
401	T47C0W	7- -41		.11	2	9086	3	2	2	9086	3
402	Z33C0W	7- -42		.33	2	9871	4	.2	2	7644	2
403	Z35C0W	7- -43		.50	2	9985	1	3	2	9079	2
404	Z37C0W	7- -44		.119	2	9996	3	2	1	9149	2
405	Z39C0W	7- -45		.178	2	9997	1	1	2	8966	2
406	Z41C0W	7- -46		.224	2	9997	1	0	0	1.0000	2
407	Z43C0W	7- -47		.281	2	9999	4	.4	2	8466	2
408	Z45C0W	7- -48		.351	3	9999	1	.4	2	7293	2
409	Z47C0W	7- -49		.442	20	9956	1	19	29	0553	2
410	M33C0W	7- -50		.288	9	9977	4	11	9	9977	4
411	M35C0W	7- -51		.402	9	9988	1	7	7	3426	2
412	M37C0W	7- -52	YES	0	0	1.0000	1	0	0	1.0000	2
413	M39C0W	7- -53	YES	0	0	1.0000	1	0	0	1.0000	2
414	M41C0W	7- -54	YES	0	0	1.0000	1	0	0	1.0000	2
415	M43C0W	7- -55	YES	0	0	1.0000	1	0	0	1.0000	2
416	M45C0W	7- -56	YES	0	0	1.0000	1	0	0	1.0000	2
417	M47C0W	7- -57	YES	0	0	1.0000	1	0	0	1.0000	2
418	B40S8MMW(C)	7- -58	YES	0	0	1.0000	1	0	0	1.0000	2
419	B40S12MMP(C)	7- -59	YES	0	0	1.0000	1	0	0	1.0000	2
420	B16P12(DB)	7- -60	YES	0	0	1.0000	1	0	0	1.0000	2
421	I33.3C0P	7-A- 1		248	11	9942	1	9	12	9936	3
422	I37C0P	7-A- 2		371	5	9996	3	7	5	9996	3
423	I41C0P	7-A- 3		408	11	9981	1	.2	8	8646	2
424	I45.3C0P	7-A- 4		377	4	9997	1	4	5	9996	3
425	F33.3C0W	7-A- 5		.27	3	9956	1	2	3	5517	2
426	F37C0W	7-A- 6		.17	2	9952	1	0	2	8573	2
427	F41C0W	7-A- 7		.13	4	9895	1	3	11	5125	2
428	F45.3C0W	7-A- 8		.9	2	9942	1	0	3	9016	2
429	H33C0P	7-A- 9		596	4	9995	3	.5	4	9999	3
430	H35C0P	7-A-10	YES	0	0	1.0000	1	0	0	1.0000	2
431	H37C0P	7-A-11		555	4	9998	1	11	8	9995	3
432	H39C0P	7-A-12		579	5	9995	4	5	5	6845	2
433	H41C0P	7-A-13		640	8	9997	3	.1	8	9997	3
434	H43C0P	7-A-14	YES	0	0	1.0000	1	0	0	1.0000	2
435	H45C0P	7-A-15	YES	0	0	1.0000	1	0	0	1.0000	2
436	H21C0P	7-A-16	YES	0	0	1.0000	1	0	0	1.0000	2
437	M33S11.1P	7-A-17		.318	6	9992	1	143	4	9984	2
438	M33P11.1P	7-A-18		.267	13	9937	4	.100	13	9937	4
439	M35S11.1P	7-A-19		.360	8	9989	1	162	8	9934	2
440	M37S11.1P	7-A-20		.349	9	9983	3	179	9	9983	3
441	M37P11.1P	7-A-21		.399	22	9929	1	.183	24	9911	4
442	M39S11.1P	7-A-22		.46	35	7319	1	16	116	2165	3
443	M41S11.1P	7-A-23		.358	2	9999	3	155	2	9999	3
444	M41P11.1P	7-A-24		.450	3	9999	4	.164	2	9997	2
445	M43S11.1P	7-A-25		.366	2	9999	1	192	2	9997	2
446	M45S11.1P	7-A-26		.374	2	1.0000	4	216	2	1.0000	4
447	M45P11.1P	7-A-27		.479	2	1.0000	4	.241	2	9999	2
448	M47S11.1P	7-A-28		.203	2	9999	3	204	2	9999	3
449	M33S14P	7-A-29		.381	13	9970	3	224	13	9970	3
450	M33P14P	7-A-30	YES	0	0	1.0000	1	0	0	1.0000	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
451	M35S14P	7-A-31		-385	3	9999	3	230	3	9999	3
452	M37S14P	7-A-32		-356	5	9996	1	227	9	9958	2
453	M37P14P	7-A-33		0	0	1 0000	1	-249	5	9989	2
454	M39S14P	7-A-34		-300	29	9757	1	178	88	8350	3
455	M41S14P	7-A-35		-267	128	5557	1	145	149	4408	3
456	M41P14P	7-A-36		-276	21	9869	1	-200	56	9668	3
457	M43S14P	7-A-37		-349	133	8769	4	229	133	8769	4
458	M45S14P	7-A-38		-374	12	9975	1	285	14	997[illegible]	3
459	M45P14P	7-A-39	YES	0	0	1 0000	1	0	0	1 0000	2
460	M47S14P	7-A-40		-396	13	9980	3	286	9	9976	2
461	W32 1SMZO 1RV	7-A-41		259	8	9980	4	-58	4	9869	[illegible]
462	W32 1SMZO 1RD	7-A-42		-682	9	9995	3	129	4	9979	2
463	W32 1SMZO 1RL	7-A-43		-452	7	9994	3	147	2	9997	2
464	W32 1SZTO 1P	7-A-44		-4	22	4189	4	-36	17	6967	2
465	W35SMZO 5P	7-A-45		-416	5	9996	3	175	4	9989	2
466	W35SMZ2W	7-A-46		-303	6	9991	1	81	6	9990	3
467	W35SZM3 9P	7-A-47		-357	5	9996	1	62	4	9914	2
468	W35SZTO 1P	7-A-48		-297	3	9998	3	55	3	9998	3
469	W35SZT2W	7-A-49		-101	11	9694	3	35	11	9694	3
470	W35STZ3 9P	7-A-50		-121	4	9980	1	13	6	9952	3
471	M49 5S9P(FO)	7-A-51		-367	17	9943	3	162	17	9943	3
472	M49 5S9P(AO)	7-A-52		-376	5	9996	3	164	5	9996	3
473	B48S2MMW(C)	7-A-53		-128	10	9831	3	14	5	8914	2
474	B56S10 1MMP(C)	7-A-54		-72	12	9616	4	31	12	9616	4
475	B40S3MMS(BM)	7-A-55		-32	12	8614	3	-17	5	8068	2
476	B40S3MMP(BM)	7-A-56		-149	3	9991	1	6	2	8855	2
477	B40S3MZS	7-A-57		-101	3	9980	4	1	2	7014	2
478	B40S3MZP	7-A-58		-89	4	9957	4	-1	3	5359	2
479	B48S5MMP	7-A-59		-107	8	9867	3	-2	3	9443	2
480	H44S19(C)	7-A-60		-80	3	9982	1	7	3	8520	2
481	T49P10W	7-B- 1		-330	5	.9995	3	-83	5	9995	3
482	T49P6W	7-B- 2		-97	4	9962	3	-22	4	9962	3
483	T49C0W	7-B- 3		-28	8	8414	3	4	6	9422	2
484	T49S2W	7-B- 4		-23	4	9884	1	14	4	9353	2
485	T49S4W	7-B 5		-16	4	9849	1	18	3	9786	2
486	T49S6W	7-B- 6		-67	2	9980	1	0	0	1 0000	2
487	T49S8W	7-B- 7		-182	6	.9982	1	57	7	9727	2
488	T49S10W	7-B- 8		-304	3	9997	1	88	3	9973	2
489	T49S10 5P	7-B- 9		-414	6	9996	1	108	5	9946	2
490	T49S10 9P	7-B-10		-484	7	9993	3	125	3	9986	2
491	Z49P10W	7-B-11		-551	3	9999	3	-163	3	9999	3
492	Z49P6W	7-B-12		-376	2	9999	1	-103	4	9960	2
493	Z49C0W	7-B-13	YES	0	0	1 0000	1	0	0	1 0000	2
494	Z49S2W	7-B-14		-412	4	.9998	1	23	4	9712	2
495	Z49S4W	7-B-15		-473	4	.9999	1	65	3	9963	2
496	Z49S6W	7-B-16		-544	6	.9998	1	88	5	9947	2
497	Z49S8W	7-B 17		-306	2	.9999	1	83	2	9989	2
498	Z49S10W	7-B-18		-470	2	1 0000	4	.65	2	1 0000	4
499	Z49S10 5P	7-B-19		-488	5	9997	1	179	4	9988	2
500	Z49S10 9P	7-B-20		-493	3	9999	3	184	3	9999	3
501	W49SMZ2W	7-B-21		-163	2	9997	3	132	2	9996	2
502	W49SZM3 9P	7-B-22		-528	11	9994	4	181	10	9934	2
503	W49SMZO 1RL	7-B-23		-381	2	9999	3	220	1	9999	2
504	W49SMZO 1RD	7-B-24		-422	4	9998	3	116	2	9989	2
505	W49SMZO 1RV	7-B-25		299	4	9995	3	-96	4	9995	3
506	W49SZT2W	7-B-26		-465	3	.9999	3	139	2	9993	2
507	W49STZ3 9P	7-B-27		-450	3	9999	4	119	2	9995	2
508	W49SZTO 1RL	7-B-28		-480	2	1 0000	3	174	1	9998	2
509	W49SZTO 1RD	7-B-29		21	6	9651	3	24	3	9889	2
510	W49SZTO 1RV	7-B-30		171	3	9988	1	-9	2	7807	2
511	M49P14W	7-B-31	YES	0	0	1 0000	1	0	0	1 0000	2
512	M49P13W	7-B-32		-12	6	.6586	4	-6	6	6586	4
513	M49P11 1P	7-B-33		-394	6	9996	1	-211	10	9985	4
514	M49P10W	7-B-34		-356	6	9994	1	-199	5	9989	2
515	M49P6W	7-B-35		-386	28	.9914	3	-120	19	9442	2
516	M49P2W	7-B-36		-438	9	9992	1	-40	7	8814	2
517	M49C0W	7-B-37		-345	5	9994	1	2	4	8479	2
518	M49S2W	7-B-38		-490	8	9994	4	38	3	9820	2
519	M49S4W	7-B-39		-479	10	9991	1	84	3	9980	2
520	M49S6W	7-B-40		-382	3	9998	3	108	3	9984	2
521	M49S8W	7-B-41		-366	5	9996	1	157	3	9993	2
522	M49S9 5P	7-B-42		-370	4	9989	4	184	2	9996	2
523	M49S10W	7-B-43		-361	4	9998	3	199	2	9998	2
524	M49S10 5P	7-B-44		-380	2	1 0000	4	212	2	1 0000	4
525	M49S10 9P	7-B-45		-374	3	9999	1	225	2	9999	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
526	M49S12W	7-B-46		372	4	9999	4	[illegible]	4	9999	[illegible]
527	M49S12 SP	7-B-47		364	3	9999	4	[illegible]	[illegible]	9998	[illegible]
528	M49S13W	7-B-48		417	3	9999	3	284		9998	[illegible]
529	M49S13 SP	7-B-49		0	[illegible]	1 0000		0	[illegible]	1 0000	[illegible]
530	M49S14W	7-B-50		364	4	9997		297	[illegible]	9998	4
531	M49S11 1P	7-B-51		368	13	9976		[illegible]	4	9970	3
532	B48COMMS(C)	7-B-52		[illegible]	26	9441	4		[illegible]	9448	4
533	238S3 SP(C)	7-B-53		248	4	[illegible]	[illegible]	4	4	9997	[illegible]
534	233S3 SP(C)	7-B-54		[illegible]	3	[illegible]	4	8		[illegible]	4
535	233S3 SP(C)	7-B-55		[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	4
536	243P3 SP(CO)	7-B-56		[illegible]	[illegible]	[illegible]		4	[illegible]	9855	[illegible]
537	243P3 SP(CI)	7-B-57		294	[illegible]	[illegible]		[illegible]	[illegible]	9937	[illegible]
538	253P3 SP(CI)	7-B-58		[illegible]	4	9997	4	[illegible]	[illegible]	9968	[illegible]
539	253P3 SP(CO)	7-B-59		442	[illegible]	[illegible]		[illegible]	[illegible]	9934	[illegible]
540	H52S18(D)	7-B-60		169	[illegible]	9997		9	[illegible]	9058	[illegible]
541	H16 2S15P(CL)	6-·1	YES	0	[illegible]	1 0000				1 0000	[illegible]
542	H49P3W	6-·2		616	2	0000	[illegible]	64		9944	[illegible]
543	H49P7W	6-·3		502	4	9998		2	4	9976	[illegible]
544	H49P10W	6-·4		370	5	9998		[illegible]	[illegible]	9997	[illegible]
545	H49P12W	6-·5		290	8	9978		[illegible]	[illegible]	9987	[illegible]
546	H49P15 SP	6-·6		[illegible]	2	9957		[illegible]	[illegible]	9995	[illegible]
547	H49P18W	6-·7	YES	[illegible]	[illegible]	[illegible]			0	1 0000	2
548	H49S1W	6-·8		690	2	1 0000		[illegible]	[illegible]	9994	2
549	H49S3W	6-·9		603	2	0000	[illegible]	6		9993	2
550	H45S5W	6-·10		546	2	0000		[illegible]	[illegible]	9990	2
551	H49S7W	6-·11		532	5	9998	[illegible]	143	5	9998	4
552	H49S9W	6-·12		447	2	0000	[illegible]	[illegible]	2	9996	2
553	H49S10W	6-·13		377	3	9938		205	[illegible]	9998	2
554	H49S11W	6-·14		328	2	9999	[illegible]	216	2	9999	2
555	H49S12W	6-·15		284	2	9998	[illegible]	[illegible]	2	9998	2
556	H49S13W	6-·16		[illegible]	2	9997		247	2	9995	2
557	H49S15 SP	6-·17		[illegible]	3	9639	[illegible]	267	4	9997	3
558	H49S16W	6-·18		[illegible]	10	978	[illegible]	245	44	9604	3
559	H49S18W	6-·19	YES	0	0	1 0000	[illegible]	0	0	1 0000	2
560	H49S19W	6-·20		366	3	9999	3	305	2	9999	2
561	H45S11 SP	6-·21		276	2	9995	1	224	2	9998	2
562	H45S16 SP	6-·22		33	5	9845	1	238	4	9994	2
563	T46S10 9P	6-·23		·346	6	9995	1	99	3	9986	2
564	T46S7W	6-·24		·140	2	9997	1	44	2	9977	2
565	T39S10 9P	6-·25		·295	[illegible]	9999	1	75	2	9989	2
566	T39S7W	6-·26	YES	0	0	1 0000	1	0	0	1 0000	2
567	T36S10 9P	6-·27		·85	3	9997	1	45	2	9957	2
568	T36S7W	6-·28		·49	2	9984	[illegible]	33	2	9951	2
569	M46S8W	6-·29		·371	3	9999	1	134	2	9996	2
570	M43S4W	6-·30		·371	2	9999	1	133	2	9997	2
571	M43S8W	6-·31		·339	3	9998	3	60	1	9992	2
572	M39S7W	6-·32		0	0	1 0000	1	97	2	9992	2
573	M39S8W	6-·33		·331	5	9994	3	117	5	9994	3
574	M30S11W	6-·34		·219	29	9738	1	142	18	9666	2
575	M30S8W	6-·35		·301	56	9243	1	108	63	9527	4
576	M37S11W	6-·36		180	102	6915	1	·47	128	5519	3
577	M27S8W	6-·37		·253	27	9682	3	58	27	9682	3
578	H55S13W	6-·38	YES	0	0	1 0000	1	0	0	1 0000	2
579	H55P16 SP	6-·39		·64	4	9968	1	·20	4	8965	2
580	T54P7W	6-·40		·23	4	9916	[illegible]	329	5	9994	2
581	T54P10 9P	6-·41		·187	35	9125	4	·29	14	6224	2
582	T54P7W	6-·42		·29	6	9557	1	14	6	7589	2
583	T54P10 9P	6-·43		·157	17	9822	1	35	20	9616	3
584	M54S8 5P	6-·44		·371	3	9998	1	163	4	9999	4
585	H59COP	6-·45	YES	0	0	1 0000	1	0	0	1 0000	2
586	H57COP	6-·46		821	7	9998	1	·3	6	8857	2
587	H57S13W	6-·47		0	0	1 0000	1	252	3	9997	2
588	H55COP	6-·48		0	0	1 0000	1	22	23	4281	2
589	H53COP	6-·49	YES	0	0	1 0000	1	0	0	1 0000	2
590	H53P13W	6-·50		316	2	9999	1	·253	2	9998	2
591	H53S13W	6-·51		318	11	9990	3	244	11	9990	3
592	H51COP	6-·52	YES	0	0	1 0000	1	0	0	1 0000	2
593	M51S14P	6-·53		·385	3	9999	3	294	3	9999	3
594	152 5COP	6-·54		409	11	9982	3	·8	11	9982	3
595	157COP	6-·55		0	0	1 0000	1	·1	3	9122	2
596	F49COW	6-·56		·13	2	9965	1	1	3	9885	2
597	F52 5COW	6-·57		·1	3	9915	1	4	4	9409	2
598	F57COW	6-·58	YES	0	0	1 0000	1	0	0	1 0000	2
599	H54 8S21P(C)	6-·59		·375	6	9995	1	255	13	9942	2
600	H20S13 SP(D)	6-·60		1	2	9947	1	0	2	9610	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
601	TS1COW	6-A- 1	YES	0	0	1.0000	1	0	0	1.0000	2
602	TS3COW	6-A- 2		-9	3	.9915	1	4	5	.9178	2
603	TS4COW	6-A- 3	YES	-16	15	.4182	3	10	15	.4182	3
604	TS5COW	6-A- 4		1	20	.3226	3	13	20	.3226	3
605	Z60S10 9P	6-A- 5		-1592	16	.9997	3	409	6	.9995	2
606	Z60S6W	6-A- 6		-897	11	.9997	1	185	21	.9985	4
607	Z60COW	6-A- 7	YES	-1	1	.3483	1	0	1	.0426	2
608	Z59S10 9P	6-A- 8		-1261	8	.9999	4	328	4	.9996	2
609	Z59COW	6-A- 9		-672	5	.9995	1	3	2	.9442	2
610	Z58S10 9P	6-A-10		-994	11	.9997	3	261	4	.9995	2
611	Z58S6W	6-A-11		-611	5	.9998	1	112	5	.9949	2
612	Z58COW	6-A-12		-639	14	.9988	1	-5	33	.9936	3
613	Z57COW	6-A-13		-630	5	.9999	1	-1	5	.9163	2
614	Z57S10 9P	6-A-14		-688	7	.9997	3	198	5	.9986	2
615	Z56 2P10 9P	6-A-15		-717	8	.9997	1	-204	13	.9995	3
616	Z56 2COW	6-A-16		-656	7	.9998	1	-122	5	.9964	2
617	Z56 2P6W	6-A-17		-640	5	.9999	1	-6	2	.7432	2
618	Z56 2S6W	6-A-18		-675	5	.9999	1	131	2	.9993	2
619	Z56 2S10 9P	6-A-19		-829	4	1.0000	1	201	36	.9943	3
620	Z55COW	6-A-20		-592	7	.9997	3	3	6	.6397	2
621	Z55S10 9P	6-A-21		-769	4	.9999	3	220	4	.9999	3
622	Z54COW	6-A-22		-589	4	.9999	3	2	3	.9650	2
623	Z55S6W	6-A-23		-629	3	.9999	1	140	4	.9989	2
624	Z54S10 9P	6-A-24		-727	6	.9998	3	220	3	.9997	2
625	Z53COW	6-A-25		-553	5	.9998	2	-1	3	.8634	2
626	Z51COW	6-A-26	YES	0	0	1.0000	1	0	0	1.0000	2
627	M51COW	6-A-27	YES	0	0	1.0000	1	0	0	1.0000	2
628	M51S11 1P	6-A-28		-393	2	.9999	1	230	3	.9997	2
629	149COP	6-A-29		411	4	.9998	1	-3	3	.8806	2
630	M53COW	6-A-30	YES	0	0	1.0000	1	0	0	1.0000	2
631	M53S11 1P	6-A-31		-355	2	.9999	1	231	2	.9998	2
632	M53S14P	6-A-32		-429	3	.9999	3	307	3	.9999	3
633	M53P11 1P	6-A-33		-396	5	.9997	1	-224	5	.9989	2
634	M53P14	6-A-34		0	0	1.0000	1	-294	8	.9981	2
635	M55COW	6-A-35		-403	26	.9895	4	-20	26	.9895	4
636	M55S11 1P	6-A-36		344	22	.9913	1	-237	17	.9884	2
637	M55S14P	6-A-37		-463	12	.9993	4	327	12	.9993	4
638	M57COW	6-A-38		-433	15	.9973	1	0	0	1.0000	2
639	M57S11 1P	6-A-39		-468	3	.9999	1	331	5	.9995	2
640	M57S14P	6-A-40		-326	3	.9998	1	230	5	.9992	2
641	M57P14	6-A-41	YES	0	0	1.0000	1	0	0	1.0000	2
642	M57P11 1P	6-A-42		-499	4	.9999	1	-326	5	.9995	2
643	M59COW	6-A-43	YES	0	0	1.0000	1	0	0	1.0000	2
644	M59S14P	6-A-44		-441	3	.9999	1	315	4	.9997	2
645	M59S11 1P	6-A-45		-342	4	.9998	3	227	4	.9998	3
646	W55 9SMZO 1RV	6-A-46		-158	22	.9766	3	170	22	.9766	3
647	W55 9SMZO 1RD	6-A-47		113	19	.9935	3	259	18	.9898	2
648	W55 9SMZO 1RL	6-A-48		-305	21	.9943	4	167	21	.9943	4
649	W55 9STZO 1RV	6-A-49		204	7	.9966	3	-88	7	.9966	3
650	W55 9STZO 1RD	6-A-50		-266	29	.9707	3	11	5	.7711	2
651	W55 9STZO 1RL	6-A-51		-774	13	.9991	3	245	13	.9991	3
652	W55 9SZM3 9RV	6-A-52		202	15	.9911	4	-60	7	.9609	2
653	W55 9SZM3 9RD	6-A-53		-324	10	.9984	4	103	5	.9953	2
654	W55 9SZM3 9RL	6-A-54		-792	6	.9999	1	234	5	.9989	2
655	W56 1SZM3 9RL	6-A-55		-4	19	.0900	1	-1	5	.1850	2
656	W56 1SZM3 9RD	6-A-56		14	18	.4191	1	9	8	.7387	2
657	W56 1SZM3 9RV	6-A-57		-98	29	.8984	1	-3	18	.5576	2
658	H58 3P20P	6-A-58		203	4	.9986	1	-297	6	.9989	2
659	RESISTOR	6-A-59		-3	4	.4787	1	1	6	.4034	3
660	W52S2MZ(D)	6-A-60		-2	5	.9549	1	-4	5	.7993	2
661	B56COTTP	6-B- 1	YES	0	0	1.0000	1	0	0	1.0000	2
662	B56COTTS	6-B- 2		-444	8	.9994	1	-18	6	.7103	2
663	B56P4TTP	6-B- 3		-31	17	.8803	1	-72	15	.9231	2
664	B56P4TTS	6-B- 4		-389	13	.9978	1	-105	10	.9820	2
665	B56P8TTP	6-B- 5		-193	49	.8991	4	-151	39	.8765	2
666	B56P8TTS	6-B- 6		-174	11	.9936	1	-30	5	.9026	2
667	B56COZTP	6-B- 7	YES	0	1	.1492	3	0	1	.1492	3
668	B56COZTS	6-B- 8		-90	7	.9938	1	-1	7	.6760	2
669	B56P4ZTP	6-B- 9		-184	26	.9448	4	-121	21	.9409	2
670	B56P4ZTS	6-B-10		-17	8	.9653	1	-26	4	.8908	2
671	B56P8ZTP	6-B-11		-143	31	.9164	4	-121	31	.8777	2
672	B56P8ZTS	6-B-12		-68	15	.9721	3	-68	10	.9569	2
673	B56COMZP	6-B-13		-133	27	.9051	4	-35	5	.9022	2
674	B56COMZS	6-B-14		-72	21	.8140	4	-29	3	.9683	2
675	B56COMFP	6-B-15		-42	18	.8878	1	-29	14	.6522	2

TABLE B.3 (Continued)

				VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
676	BS6COMFS	6-B-16		-9	9	8954	1	-5	4	3202	2
677	BS6P8MFP	6-B-17		-28	8	9568	3	-24	3	9454	2
678	BS6P8MFS	6-B-18		20	32	8134	4	-89	18	8903	2
679	BS6COFIP	6-B-19		-45	13	9206	1	-69	45	6708	3
680	BS6COFIS	6-B-20		-87	5	9958	1	-6	3	9092	2
681	BS6P6FIP	6-B-21		39	14	837	3	-27	4	9026	2
682	BS6P6FIS	6-B-22		34	6	9132	3	-17	4	9118	2
683	BS6S4TTP	6-B-23		103	31	9308	[illegible]	41	14	9260	2
684	BS6S4TTS	6-B-24		-31[illegible]	11	95[illegible]	[illegible]	76	17	9370	2
685	B16P211WIC	6-B-25		-16	15	590[illegible]	3	[illegible]	4	9386	2
686	BS6S8TTS	6-B-26	YES	C	0	1 0000	[illegible]	C	C	1 0000	2
687	BS6S4ZTP	6-B-27		-151	29	9494	4	35	8	9551	2
688	BS6S4ZTS	6-B-28		-140	14	9862	1	50	15	9066	2
689	BS6S8ZTP	6-B-29		-70	28	7197	3	64	9	9721	2
690	BS6S8ZTS	6-B-30		-38	7	9812	4	33	2	9856	2
691	BS6S8MFP	6-B-31	YES	-55	4	9917	1	C	0	1 0000	2
692	BS6S8MFS	6-B-32		57	34	7110	4	37	5	945	2
693	BS6S6FIP	6-B-33		31	16	6007	1	4	3	9820	2
694	BS6S6FIS	6-B-34		46	5	9496	[illegible]	5	4	9376	2
695	BS6COMMRH	6-B-35		-192	8	9968		6	10	6560	2
696	BS6COMMRD	6-B-36		139	10	9918	1	-17	5	7779	2
697	BS6COMMRV	6-B-37		80	13	9452	4	10	11	7044	2
698	BS6P711RV	6-B-38		73	22	7578	1	C	C	1 0000	2
699	BS6P711RD	6-B-39		76	8	9538	1	0	9	2038	2
700	BS6P711RH	6-B-40		105	10	9772	3	-27	8	7843	2
701	BS6P111FRV	6-B-41		13	12	7687	3	11	6	8718	2
702	BS6P111FRD	6-B-42		-375	9	9989	4	65	4	9911	2
703	BS6P111FRH	6-B-43		-30	6	9876	1	3	7	9126	2
704	BS6P13FFRV	6-B-44		13	8	4229	1	31	2	9921	2
705	BS6P13FFRD	6-B-45		-150	7	9952	1	63	6	9805	2
706	BS6P13FFRH	6-B-46		7	4	9755	1	-58	14	8200	2
707	BS6S711RH	6-B-47		64	6	967[illegible]	[illegible]	0	4	7371	2
708	BS6S711RD	6-B-48		69	19	8773	3	-13	19	8773	3
709	BS6S711RV	6-B-49		45	17	6194	1	9	9	7763	2
710	BS6S111FRH	6-B-50		206	7	9963	4	39	7	9963	4
711	BS6S111FRD	6-B-51		400	17	9960	3	56	10	9531	2
712	BS6S111FRV	6-B-52		-63	7	9868	1	-25	3	9295	2
713	BS6S13FFRH	6-B-53		-9	4	9563	[illegible]	104	19	9541	1
714	BS6S13FFRD	6-B-54		8	8	8421	1	-29	4	9384	2
715	BS6S13FFRV	6-B-55		-192	10	9949	1	-59	8	9469	2
716	M36 1S4P(C)	6-B-56		48	4	9667	1	2	5	8318	2
717	M36S4P(C)	6-B-57		612	6	9998	1	3	5	9940	2
718	M32 1S9P(C)	6-B-58		-758	8	9987	3	-95	6	9983	2
719	M32 1P 5P(C)	6-B-59		-369	4	9998	1		7	9285	2
720	RESISTOR	6-B-60		103	6	9884	1	25	8	8973	2
721	APMM36C1PA	5- 1		-199	22	9794	1	160	51	9555	4
722	APMM36C2PA	5- 2		-896	17	9990	4	17	11	8261	2
723	APMM36C3PA	5- 3		-985	19	9992	1	-219	14	9911	2
724	APMM36C4PA	5- 4	YES	-401	4	9998	4	-146	4	9998	4
725	APMM36C5PA	5- 5		-427	18	9952	4	-140	16	9659	2
726	APMM36P3PA4	5- 6		-401	3	9999	3	-180	2	9995	2
727	APMM36C1PF	5- 7		-366	5	9996	4	-206	5	9996	4
728	APMM36C2PF	5- 8		-407	4	9998	1	-251	5	9992	2
729	APMM36C3PF	5- 9		-724	6	9998	4	-510	6	9998	4
730	APMM36C4PF	5- -10		-547	8	9999	3	-569	5	9998	2
731	APMM36C5PF	5- -11		20	5	9996	3	-293	2	9998	2
732	APMM36P1PFO 5	5- -12		-438	3	1 0000	3	251	3	1 0000	3
733	APMM36P3PFO 5	5- -13		-469	3	1 0000	3	-270	3	1 0000	3
734	APMM36P5PFO 5	5- -14		-617	3	1 0000	3	-357	3	1 0000	3
735	APMM36RLPF	5- -15		-682	4	1 0000	3	-438	4	1 0000	3
736	APMM36RDPF	5- -16		-291	3	9999	3	-285	3	9999	3
737	APMM36RHPF	5- -17		326	12	9958	1	7	14	9948	3
738	APMM36P3PF2	5- -18		-435	11	9992	3	-230	11	9992	3
739	APMM36P3PF4	5- -19		-431	6	9998	3	-216	5	9985	2
740	M35 3P11 1P	5- -20		-392	4	9998	3	-199	4	9990	2
741	M36 3P11 6P	5- -21		-412	8	9995	3	178	7	9964	2
742	M35 3P12P	5- -22		-278	30	9738	1	-185	44	9580	4
743	M38 6P11 7P	5- -23		-204	3	9996	1	199	1	9999	2
744	APM233C315	5- -24		-23	5	9890	1	-16	2	9070	2
745	APM233C308	5- -25		254	3	9997	3	33	3	9897	2
746	APM233C300(R)	5- -26		2	2	9051	1	-2	2	6261	3
747	APM233C293	5- -27		-704	7	9998	3	-124	3	9980	2
748	APM233RVMM	5- -28		-4	2	9944	4	26	1	9948	2
749	APM233RDMM	5- -29	YES	0	1	0828	3	C	0	1 0000	2
750	APM233RLMM	5- -30		-225	4	9993	1	-108	4	9962	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
751	APMZ33RLMA	5- -31	YES	0	0	1982	4	0	0	1 0000	2
752	APMZ33RDMA	5- -32		.668	3	9999	4	.144	2	9997	2
753	APMZ33RVMA	5- -33		.44	8	9369	3	36	6	9344	2
754	APZZ38C2PA	5- -34		.1664	7	1 0000	1	.49	8	9631	2
755	APZZ38C3PA	5- -35	YES	0	0	1 0000	1	0	0	1 0000	2
756	APZZ38C4PA	5- -36	YES	0	0	1 0000	1	0	0	1 0000	2
757	APZZ38P3PA 5	5- -37		.653	5	9999	3	.78	3	9951	2
758	APZZ38P3PA2	5- -38		.485	7	9996	3	.98	7	9996	3
759	APZZ38P3PA4	5- -39		411	5	[illegible]	3	.102	2	9990	2
760	APZZ38RHPA	5- -40		11	5	9567	1	70	2	9980	2
761	APZZ38RDPA	5- -41	YES	0	0	1 0000	1	0	0	1 0000	2
762	APZZ38RLPA	5- -42		.1155	5	1 0000	1	.121	2	9996	2
763	APMZ39C315	5- -43		.639	7	9997	3	.59	5	9757	2
764	APMZ39C308	5- -44		.615	5	9998	3	.62	4	9829	2
765	APMZ39C300	5- -45		.592	4	9999	4	.72	4	9995	4
766	APMZ39C293	5- -46		.692	5	9999	3	.110	3	9972	2
767	APMZ42C315	5- -47		.639	6	9998	1	.67	6	9666	2
768	APMZ42C308	5- -48		.633	6	9997	4	81	3	9970	2
769	APMZ42C300(R)	5- -49		26	20	6427	3	25	20	6427	3
770	APMZ42C293	5- -50		.624	4	9995	3	.123	4	9999	2
771	B16P3MMRH	5- -51		88	10	9644	4	39	7	9485	2
772	B16P3MMRD	5- -52		119	17	9628	3	12	15	6018	2
773	B16P3MMRV	5- -53		46	75	5882	3	11	54	3303	2
774	H23P17MFP(U)	5- -54		.149	31	9333	1	.143	30	8766	2
775	H23 9P16MFP(HSU)	5- -55		478	6	9996	1	.57	5	9752	2
776	H23 9P16MFP(HSL)	5- -56		.572	7	9997	3	.9	5	4669	2
777	B24P10 5MMRH	5- -57		.6	4	9674	1	.9	3	9586	2
778	B24P10 5MMRD	5- -58		144	7	9914	1	16	4	9701	2
779	B24P10 5MMRV	5- -59		.24	13	9694	1	15	8	7100	2
780	W36P2MZ(D)	5- -60		.4	3	9825	1	1	2	9278	2
781	APMM44C1PA	5-A- 1	YES	0	0	1 0000	1	0	0	1 0000	2
782	APMM44C2PA	5-A- 2		.1050	14	9996	1	.250	17	9995	3
783	APMM44C3PA	5-A- 3		.1054	7	9999	1	.347	8	9988	2
784	APMM44C4PA	5-A- 4	YES	.567	17	9990	4	327	17	9990	4
785	APMM44C5PA	5-A- 5		.481	2	9999	1	.191	4	9990	2
786	APMM44P3PA4	5-A- 6		.464	8	9996	3	.228	8	9996	3
787	APMM44C1PF	5-A- 7		.431	4	9998	1	.248	5	9992	2
788	APMM44C2PF	5-A- 8		.463	2	1 0000	1	.273	4	9999	3
789	APMM44C3PF	5-A- 9		.774	5	9999	4	.525	5	9999	4
790	APMM44C4PF	5-A-10		.630	4	9999	1	.599	8	9995	3
791	APMM44C5PF	5-A-11		1	4	9554	1	.257	5	9994	3
792	APMM44P1PFO 5	5-A-12		.468	3	9995	1	.271	4	9999	3
793	APMM44P3PFO 5	5-A-13		.505	4	9999	1	.292	5	9999	3
794	APMM44P5PFO 5	5-A-14		.654	2	1 0000	1	.394	3	9998	2
795	APMM44RLPF	5-A-15		.722	2	1 0000	1	.481	4	1 0000	2
796	APMM44RDPF	5-A-16		.262	2	9999	1	.277	4	9998	3
797	APMM44RHPF	5-A-17		0	0	1 0000	1	6	37	9742	3
798	APMM44P3PF2	5-A-18		.483	14	9990	3	.245	14	9990	3
799	APMM44P3PF4	5-A-19		.476	9	9996	3	.235	9	9996	3
800	M43 3P11 1P	5-A-20		.465	11	9993	3	.217	11	9993	3
801	M43 3P11 5P	5-A-21		.429	7	9997	3	.229	6	9981	2
802	M43 3P12 0P	5-A-22		.421	12	9991	3	.244	12	9991	3
803	M41 4P11 7P	5-A-23		.516	4	9999	3	219	4	9993	2
804	APMZ46C292	5-A-24		.696	6	9998	3	.127	6	9998	3
805	APMZ46C285	5-A-25		0	0	1 0000	1	.109	10	9857	2
806	APMZ46C277	5-A-26		.536	5	9998	4	.166	2	9996	2
807	APMZ46C270	5-A-27		.455	8	9991	4	.204	6	5974	2
808	APZZ46C3PA	5-A-28		.1492	5	1 0000	1	.183	3	9992	2
809	APZZ46C3PF	5-A-29	YES	0	0	1982	3	0	0	1982	3
810	APZZ52C3SF	5-A-30		.702	6	9998	3	336	6	9993	2
811	ASZZ52C35A	5-A-31	YES	0	0	2580	3	0	0	2580	3
812	APMZ62C101	5-A-32		.491	6	9998	3	.176	5	9981	2
813	APMZ62C094	5-A-33		.457	14	9973	4	.157	6	9969	2
814	APMZ62C086(R)	5-A-34		25	35	2220	4	.2	13	0748	2
815	APMZ62C078	5-A-35	YES	0	0	1 0000	1	0	0	1 0000	2
816	APMZ62RLZA	5-A-36	YES	0	0	1 0000	1	0	0	1 0000	2
817	APMZ62RDZA	5-A-37		.23	27	4828	4	.47	24	5145	2
818	APMZ62RHZA	5-A-38		.18	22	5192	4	.60	18	5696	2
819	ASMM66C1SF	5-A-39		.729	6	9999	1	67	4	9934	2
820	ASMM66C2SF	5-A-40		.941	8	9999	4	163	6	9986	2
821	ASMM66C3SF	5-A-41		.968	7	9999	1	219	6	9982	2
822	ASMM66C4SF	5-A-42		.599	9	9996	4	165	9	9996	4
823	ASMM66C5SF	5-A-43		.569	5	9999	1	154	6	9977	2
824	MS9 SP SP(AC)	5-A-44		.471	3	9999	1	.11	4	7658	2
825	MS9 SP SP(FCO)	5-A-45		.267	2	9999	1	.9	2	7925	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
826	M59 9P SP(FC1)	5-A-46		322	3	9999	1	-9	3	7101	2
827	M48S5W(BMSU)	5-A-47	YES	36	28	9031	3	85	28	9031	3
828	B56P8MMS(BM)	5-A-48		-68	11	9626	4	31	7	9327	2
829	M48S5W(BMSL)	5-A-49	YES	0	0	1 0000	1	0	0	1 0000	2
830	B56P8MZS(BM)	5-A-50		-80	30	8808	4	-115	24	9007	2
831	B40S9MMP(C)	5-A-51		575	5	9999	3	64	5	9999	3
832	B64P8MMS(BM)	5-A-52		51	11	8838	1	5	10	8938	2
833	M23 9S19S	5-A-53		-25	10	9781	1	-30	7	8755	2
834	B24S9 5MMRV(C)	5-A-54		-82	6	9933	1	-34	3	9742	2
835	B24S9 5MMRD(C)	5-A-55		-89	6	9949	1	-28	5	8890	2
836	B24S9 5MMRH(C)	5-A-56		-12	6	8945	1	-35	4	9668	2
837	M23 9S16P(HSU)	5-A-57		351	4	9997	1	80	7	9857	2
838	M23 9S16P(HSL)	5-A-58		-613	9	9996	1	30	7	9373	2
839	M23P17MFP(L)	5-A-59		-134	3	9990	1	-97	3	9980	2
840	W44P2MZ(D	5-A-60		-1	6	9536	1	4	4	7153	2
841	M23 9S4 SP(HSO)	5-B-1		-22	5	9981	1	-111	4	9961	2
842	M23 9S4 SP(HSI)	5-B-2		13	19	9739	3	129	19	9739	3
843	M24 1P8 SP(HSL)	5-B-3		289	76	9004	3	66	47	5343	2
844	M24 1P8 SP(HSL)	5-B-4	YES	-513	3	9999	4	-167	2	9994	2
845	M24 1P13 9P(C)	5-B-5		19	4	9710	1	36	4	9857	2
846	M29 3P17 8RH	5-B-6		36	6	8995	1	40	6	9605	2
847	M29 3P17 8RD	5-B-7		-885	3	1 0000	4	-92	3	9978	2
848	M29 3P17 8RL	5-B-8		-61	4	9990	1	-183	5	9981	2
849	M31 9P14S(C)	5-B-9		-47	4	9926	1	-134	5	9976	4
850	B32P8F(RH,C)	5-B-10		56	5	9697	1	22	6	9643	2
851	B32P8F(RD,C)	5-B-11		-60	3	9982	1	-16	3	8458	2
852	B32P8F(RV,C)	5-B-12		-155	4	9984	3	8	4	9984	3
853	M31 8P11W	5-B-13		-247	5	9993	3	-74	4	9919	2
854	M31 8P10 SP	5-B-14		-293	5	9996	3	-149	3	9992	2
855	M37P20P	5-B-15		-251	7	9997	1	-225	4	9991	2
856	M37S20P(CU)	5-B-16		-221	3	9997	1	218	4	9996	3
857	M37S20P(CL)	5-B-17		-196	7	9984	3	216	7	9984	3
858	M37S19P(C)	5-B-18		-196	3	9996	1	230	9	9977	3
859	M37 4S20P(C)	5-B-19		243	7	9988	3	228	7	9988	3
860	B40S8 5MFRV(BB)	5-B-20		38	8	8588	1	27	11	8484	2
861	B40S8 5MFRD(BB)	5-B-21		-124	8	9935	1	83	11	9862	3
862	B40S8 5MFRH(BB)	5-B-22		-186	8	9949	3	63	8	9949	3
863	M44S20P(LP)	5-B-23		-78	10	9945	1	273	12	9955	2
864	M45 4S21P(C)	5-B-24		387	4	9998	1	308	3	9998	2
865	M45 4S21P(C)	5-B-25		-388	5	9997	1	302	6	9996	3
866	M41P20P(C	5-B-26		-2	6	6467	1	79	6	9925	3
867	M47 9P9P(C)	5-B-27		476	5	9997	1	-186	6	9995	3
868	B48P8 2MMRV(BB)	5-B-28		-75	12	9369	4	-5	8	1614	2
869	B48P8 2MMRD(BB)	5-B-29	YES	0	0	1982	3	0	0	1 0000	2
870	B48P8 2MMRH(BB)	5-B-30		52	10	8997	1	-45	7	8941	2
871	M42 6P20P(C)	5-B-31	YES	0	1	2002	3	0	0	3681	2
872	B48P12MMP(CI)	5-B-32		50	10	9143	4	13	7	6702	2
873	B48P12MMP(CO)	5-B-33		98	12	9607	4	23	2	9887	2
874	B48C01P(C)	5-B-34		67	14	8939	4	-3	7	5132	2
875	I55 9P2P(C)	5-B-35	YES	0	0	1 0000	1	0	0	1 0000	2
876	M48 5P10P(CD)	5-B-36	YES	0	0	1 0000	1	0	0	1 0000	2
877	M51P14P(CU)	5-B-37		149	3	9982	1	-287	4	9996	2
878	M51P14P(CL)	5-B-38		366	4	9997	1	-244	3	9997	2
879	M49P19P(C)	5-B-39		-221	4	9996	1	-306	3	9997	2
880	M51P18P(C)	5-B-40		-190	4	9993	1	-273	3	9997	2
881	M56P8W(BMSUO)	5-B-41		-165	41	9259	1	-61	37	5484	2
882	M56P8W(BMSLO)	5-B-42	YES	-88	39	7321	4	-80	34	8898	2
883	M56P8W(BMSUO)	5-B-43		-158	19	9892	1	-67	23	9532	3
884	M56P8W(BMSLO)	5-B-44	YES	0	0	1 0000	1	0	0	1 0000	2
885	RESISTOR	5-B-45		-2	4	6499	1	4	5	4923	2
886	M40S3W(BMSU)	5-B-46		-294	34	9665	4	-48	5	9706	2
887	B56P8MMP(BM)	5-B-47		-82	36	8720	4	-133	21	9270	2
888	M48S5W(BMSU)	5-B-48	YES	0	0	1 0000	1	0	0	1 0000	2
889	B56P8MZP(BM)	5-B-49		-35	17	8071	4	-53	12	9127	2
890	M31 8P10W	5-B-50		293	8	9979	4	-159	2	9995	2
891	H16S12P(CU)	5-B-51		-61	5	9908	3	56	3	9938	2
892	H16S12P(CM)	5-B-52		-60	5	9948	1	57	5	9888	3
893	H16S12P(CL)	5-B-53		-114	14	9810	4	51	10	9529	2
894	H14S12P(C)	5-B-54		6	3	9862	1	-13	4	7487	2
895	H10 6S8S(C)	5-B-55		-69	6	9938	1	33	3	9908	2
896	H12P14P(C)	5-B-56		-33	3	9963	1	-19	3	8719	2
897	H12P14P(C)	5-B-57		-3	4	9842	1	-18	3	9298	2
898	B16P8P(C)	5-B-58		138	4	9964	1	-5	5	9959	3
899	H23S20P(C)	5-B-59		-157	3	9994	1	102	1	9997	2
900	RESISTOR	5-B-60		2	3	2587	4	1	3	2587	4

TABLE B.3 (Continued)

				VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
901	B64COZZP	4- - 1		-87	15	9418	4	-9	3	8389	2
902	B64COZZS	4- - 2		-74	11	9698	1	-10	1	9317	2
903	B64P4ZZP	4- - 3		0	0	1 0000	1	-38	4	9681	2
904	B64P4ZZS	4- - 4		-219	18	9867	1	-52	3	9906	2
905	B64P8ZZP	4- - 5		-101	9	9906	3	-52	4	9794	2
906	B64P8ZZS	4- - 6		-105	19	9694	3	-39	9	8799	2
907	B64COMZP	4- - 7		-120	25	9333	1	-21	2	9070	2
908	B64COMZS	4- - 8		-42	4	9930	1	8	3	9189	2
909	B64P4MZP	4- - 9		-104	19	9573	3	-33	4	9647	2
910	B64P4MZS	4- -10		-136	17	9797	3	-50	5	9752	2
911	B64P8MZP	4- -11		-7	20	7653	3	-31	5	9344	2
912	B64P8MZS	4- -12		-140	6	9964	1	-62	4	9877	2
913	B64COMFP	4- -13		-27	13	8369	1	-6	2	7032	2
914	B64COMFS	4- -14		-62	15	8835	4	-8	5	7567	2
915	B64P2MFP	4- -15		-41	12	8180	4	-10	2	9106	2
916	B64P2MFS	4- -16	YES	0	1	1225	4	0	1	2136	2
917	B64COFIP	4- -17		-68	10	9696	1	-6	1	9437	2
918	B64COFIS	4- -18		-59	5	9889	1	2	3	6058	2
919	B64P6FIP	4- -19		38	13	6794	1	-15	6	6098	2
920	B64P6FIS	4- -20		10	10	3456	1	-41	3	9874	2
921	B64S4ZZP	4- -21		-98	16	9541	1	5	3	9338	2
922	B64S4ZZS	4- -22		-115	5	9968	1	28	3	9860	2
923	B64S8ZZP	4- -23		-125	9	9910	1	43	5	9841	2
924	B64S8ZZS	4- -24		-36	14	9207	4	16	7	8089	2
925	B64S4MZP	4- -25		-114	18	9591	4	10	5	8716	2
926	B64S4MZS	4- -26		-202	22	9692	3	20	3	9678	2
927	B64S8MZP	4- -27		-115	22	9482	4	24	4	9693	2
928	B64S8MZS	4- -28		-150	15	9863	4	39	4	9887	2
929	B64S4MFP	4- -29		-131	18	9539	3	9	2	9619	2
930	B64S4MFS	4- -30		-106	22	8974	3	12	3	9629	2
931	B64S6FIP	4- -31		-82	18	8971	3	9	3	9166	2
932	B64S6FIS	4- -32		-104	16	9383	3	25	3	9850	2
933	B64COMHRH	4- -33		-7	5	9361	1	-5	3	6275	2
934	B64COMHRD	4- -34		-3	6	9500	1	8	2	9375	2
935	B64COMHRV	4- -35		12	6	7730	3	5	3	8972	2
936	B64P7IIRV	4- -36		74	12	9361	3	-27	4	9227	2
937	B64P7IIRD	4- -37	YES	7	3	7184	3	-1	3	7184	3
938	B64P7IIRH	4- -38		140	14	9779	1	29	3	9823	2
939	B64P11FIRV	4- -39		-457	10	9990	4	91	2	9990	2
940	B64P11FIRD	4- -40		67	10	9437	3	-32	2	9806	2
941	B64P11FIRH	4- -41		-168	37	8250	1	-45	14	8693	2
942	B64P13FFRV	4- -42		-18	8	9878	3	97	4	9963	2
943	B64P13FFRD	4- -43		-240	22	9792	3	116	16	9598	2
944	B64P13FFRH	4- -44		19	6	9229	1	-3	8	1892	2
945	B64S7IIRH	4- -45		59	7	9788	4	8	4	7627	2
946	B64S7IIRD	4- -46		56	11	9370	4	9	6	5269	2
947	B64S7IIRV	4- -47		-1	9	8784	1	-14	7	6023	2
948	B64S11FIRH	4- -48		65	4	.9868	1	111	14	9662	2
949	B64S11FIRD	4- -49		-424	16	9972	1	-52	5	9788	2
950	B64S11FIRV	4- -50		-34	10	9463	1	-62	7	9747	2
951	B64S13IIRH	4- -51	YES	0	0	1.0000	1	0	0	1 0000	2
952	B64S13IIRD	4- -52		-225	21	9800	4	-11	12	3841	2
953	B64S13IIRV	4- -53		-27	6	8940	4	-5	4	7534	2
954	M61 2S20P(CU)	4- -54		-457	8	9994	3	330	4	9997	2
955	M59S8P(C)	4- -55		-421	4	9999	4	202	2	9997	2
956	APMZ46C112	4- -56		-439	6	9997	3	-83	3	9967	2
957	APMZ46C105	4- -57		-411	8	9988	4	-106	8	9880	2
958	APMZ46C97	4- -58	YES	-486	14	9985	3	-142	14	9985	3
959	APMZ46C90	4- -59		-179	9	9949	4	-116	4	9964	2
960	H60P19(D)	4- -60		-12	6	.6584	4	-1	2	9547	2
961	M61P14P(G)	4-A- 1	YES	0	0	1.0000	1	0	0	1 0000	2
962	M61P11 1P	4-A- 2		-449	5	9998	1	-268	2	9999	2
963	M61P10W	4-A- 3		-408	3	.9999	1	-220	3	9996	2
964	M61P6W	4-A- 4		-394	6	.9996	1	-127	2	9992	2
965	M61P2W	4-A- 5		-387	3	.9999	1	-35	2	9881	2
966	M61COW	4-A- 6	YES	0	0	1 0000	1	0	0	1 0000	2
967	M61S2W	4-A- 7		-372	3	.9999	1	29	3	9858	2
968	M61S4W	4-A- 8		-310	4	9997	1	63	3	9961	2
969	M61S6W	4-A- 9		-422	3	.9999	1	127	12	9738	2
970	M61S8W	4-A-10		-365	4	.9997	3	150	3	9993	2
971	M61S9 5P	4-A-11		-386	3	9998	3	185	2	9996	2
972	M61S10W	4-A-12		-366	4	.9998	1	205	3	9994	2
973	M61S10.5P	4-A-13		-349	9	9993	4	217	8	9962	2
974	M61S11 1P	4-A-14		-395	6	.9994	3	259	6	9994	3
975	M61S12W	4-A-15		-420	5	9997	1	268	7	9986	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
976	M61S12.5P	4-A-16	YES	0	0	1113	3	0	0	1149	2
977	M61S13W	4-A-17		-451	12	9984	1	283	11	9962	2
978	M61S14P	4-A-18		-436	9	9995	4	299	9	9995	4
979	Z61COW	4-A-19		-849	9	9997	4	5	1	9614	2
980	Z61S2W	4-A-20		-445	3	9999	1	23	2	9899	2
981	Z61S4W	4-A-21		-523	4	9999	1	59	2	9983	2
982	Z61S6W	4-A-22		-1048	14	9995	3	177	3	9994	2
983	Z61S8W	4-A-23		-859	6	9999	3	182	5	9981	2
984	Z61S9W	4-A-24		-893	6	9999	3	210	3	9995	2
985	Z61S10W	4-A-25		-1169	19	9995	4	292	3	9997	2
986	Z61S10.5P	4-A-26		-1398	37	9987	4	353	3	9998	2
987	Z61S10.9P	4-A-27		-1345	25	9994	4	345	3	9998	2
988	Z61P6W	4-A-28		-1080	29	9985	4	120	8	9888	2
989	Z61P10W	4-A-29		-1185	22	9993	4	82	6	9918	2
990	W61S2M3.9P	4-A-30		-1425	24	9995	4	361	3	9998	2
991	W61SM20.1P	4-A-31		-928	21	9992	4	309	3	9998	2
992	H56 1S21P	4-A-32		-984	21	9993	4	357	8	9988	2
993	H61S3W	4-A-33		679	4	9999	1	60	7	9735	2
994	H61P5W	4-A-34		666	4	9999	1	-70	4	9903	2
995	H61S5W	4-A-35		601	7	9997	4	104	4	9970	2
996	H61S7W	4-A-36		519	2	9999	1	147	2	9997	2
997	H61P7W	4-A-37	YES	69	1	9996	3	28	1	9996	3
998	H61S9W	4-A-38		-188	3	9999	4	310	3	9999	4
999	H61S11W	4-A-39		436	3	9999	1	-224	2	9998	2
1000	H61P11W	4-A-40		501	3	9999	4	-150	2	9995	2
1001	H61S13W	4-A-41		346	11	9991	3	255	6	9986	2
1002	H61S14W	4-A-42		270	4	9999	3	281	2	9999	2
1003	H61P14W	4-A-43		269	7	9982	1	-272	4	9994	2
1004	H61S15W	4-A-44		149	3	9985	1	292	2	9998	2
1005	H61S16.5P	4-A-45		-21	4	9867	1	272	4	9995	2
1006	H61P16.5P	4-A-46		0	0	1 0000	1	-267	5	9993	2
1007	H61S18W	4-A-47		884	453	6173	4	-856	407	5438	2
1008	H61S20WL	4-A-48		-376	2	9999	1	316	5	9997	3
1009	H61P20WL	4-A-49		-400	3	9999	4	-327	3	9998	2
1010	H57 9P9S(C)	4-A-50		124	12	9945	4	-120	8	9893	2
1011	B56P811P(C)	4-A-51		101	14	9272	1	-34	8	8365	2
1012	ASMZ76C098	4-A-52		-471	10	9992	4	137	10	9992	4
1013	ASMZ76C105	4-A-53		-540	9	9994	4	114	4	9972	2
1014	ASMZ76C112	4-A-54		-615	7	9996	3	93	2	9991	2
1015	ASMM66C55A	4-A-55		-660	5	9999	1	476	8	9997	3
1016	ASMM66C45A	4-A-56		-771	5	9999	1	507	6	9999	3
1017	ASMM66C35A	4-A-57		-768	6	9999	1	464	4	9998	2
1018	ASMM66C15A	4-A-58	YES	104	878	2440	4	-376	673	0265	2
1019	ASMM66C15A	4-A-59		-524	5	9998	1	290	2	9999	2
1020	W68S2MZ(D)	4-A-60		0	4	9664	1	1	4	7927	2
1021	B72COHHRH	4-B- 1		-55	8	9537	3	4	3	8430	2
1022	B72COHHRD	4-B- 2		-61	6	9884	1	9	2	9683	2
1023	B72COHHRV	4-B- 3		-105	3	9987	1	5	2	9712	2
1024	B72P12.5FIRV	4-B- 4		140	3	9989	1	-92	8	9803	2
1025	B72P12.5FIRD	4-B- 5		-147	5	9981	1	43	3	9888	2
1026	B72P12.5FIRH	4-B- 6		92	5	9895	1	-24	3	9668	2
1027	B72S12.5FIRH	4-B- 7		106	8	9799	1	91	7	9854	2
1028	B72S12.5FIRD	4-B- 8		-236	6	9988	1	-107	6	9905	2
1029	B72S12.5FIRV	4-B- 9		-33	3	9931	1	-43	6	9848	2
1030	Z62.5COW	4-B-10		-688	6	9998	3	2	1	2966	2
1031	Z65COW	4-B-11		-613	5	9998	4	2	1	9611	2
1032	Z67COW	4-B-12		-627	4	9999	1	2	2	7342	2
1033	Z69COW	4-B-13		-644	5	9999	4	-1	2	9374	2
1034	Z71COW	4-B-14		-610	6	9998	4	0	2	9038	2
1035	Z63S6W	4-B-15		-714	4	9999	1	124	2	9997	2
1036	Z63S11W	4-B-16	YES	1	2	2598	1	0	1	4192	2
1037	M63COW	4-B-17		0	0	1 0000	1	1	5	9996	4
1038	M63S11.1P	4-B-18		-453	3	9999	4	257	2	9998	2
1039	M63S14P	4-B-19		-505	4	9999	4	321	3	9998	2
1040	M65COW	4-B-20		-406	4	9997	4	5	4	4582	2
1041	M65S11.1P	4-B-21		-450	9	9991	3	268	3	9998	2
1042	M65S14P	4-B-22		-535	8	9998	4	333	6	9992	2
1043	M65P14P	4-B-23		-509	4	9998	1	-316	5	9995	2
1044	M65P11.1P	4-B-24		-461	2	9999	4	-272	2	9999	2
1045	M67COW	4-B-25	YES	0	0	1 0000	1	0	0	1 0000	2
1046	M67S11.1P	4-B-26		-427	4	9999	4	250	2	9999	2
1047	M67S14P	4-B-27		-445	30	9953	4	282	8	9981	2
1048	M69COW	4-B-28	YES	0	0	1 0000	1	0	0	1 0000	2
1049	M69S11.1P	4-B-29		-422	5	9998	4	245	5	9998	4
1050	M69S14P	4-B-30		-434	15	9988	4	273	4	9994	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1051	M69P11 1P	4-B-31		-435	8	9993	4	11	3	8087	2
1052	M69P14P	4-B-32	YES	0	0	1 0000	1	0	0	1 0000	2
1053	M71COW	4-B-33		-382	3	9999	1	-1	2	0777	2
1054	M71S10 1P	4-B-34		-382	4	9998	1	233	2	9999	2
1055	M71S13P	4-B-35		-507	3	9999	1	351	25	9528	2
1056	M6358 5P	4-B-36		-377	4	9998	1	141	3	9993	2
1057	169COP	4-B-37	YES	42	3	9906	3	1	3	9906	3
1058	165COP	4-B-38		5	3	6637	4	3	3	6437	4
1059	F65CONA	4-B-39	YES	0	0	1 0000	1	0	0	1 0000	2
1060	N63COP	4-B-40		427	5	9997	4	-1	3	6423	2
1061	N65COP	4-B-41		882	97	9653	1	150	63	9145	2
1062	N65S13W	4-B-42		320	3	9959	2	232	2	9998	2
1063	H67COP	4-B-43	YES	0	0	1 0000	1	0	0	1 0000	2
1064	H69P13W	4-B-44		303	3	9999	4	-226	3	9996	2
1065	H69COP	4-B-45	YES	0	0	1 0000	1	0	0	1 0000	2
1066	H69S13W	4-B-46		345	2	9997	1	0	0	1 0000	2
1067	H71COP	4-B-47		608	4	9995	1	-7	4	7414	2
1068	161COP	4-B-48		425	5	9997	1	-8	5	9997	3
1069	F61CONA	4-B-49		-14	3	9925	1	2	4	5524	2
1070	B6458 SMMRV	4-B-50		-42	7	9715	1	23	8	8413	2
1071	B6458 SMMRD	4-B-51		-119	7	9955	1	22	5	9200	2
1072	B6458 SMMRH	4-B-52		-318	157	5989	1	-5	255	4431	2
1073	H65S20P(CU)	4-B-53		-311	7	9990	1	345	5	9996	2
1074	H65S20P(ACL)	4-B-54		-291	3	9998	1	320	3	9999	2
1075	H65S20P(FCL)	4-B-55		-256	3	9999	4	289	2	9999	2
1076	ASMZ76C090	4-B-56		-374	3	9998	5	133	2	9996	2
1077	ASMZ62C65	4-B-57		-576	4	9998	4	-186	2	9996	2
1078	ASMZ62C60	4-B-58	YES	499	413	2859	1	-246	651	1937	2
1079	ASMZ62C55	4-B-59		-457	4	9997	4	-144	2	9995	2
1080	H68S19P(D)	4-B-60		3	5	9692	1	0	2	9610	2
1081	B80COZZP	3- -1		-130	4	9988	1	1	2	9038	2
1082	B80COZZS	3- -2		272	2	9999	4	0	1	5907	2
1083	B80P3ZZP	3- -3		-96	2	9991	4	1	2	9991	4
1084	B80P3ZZS	3- -4		166	3	9994	4	-6	1	8919	2
1085	B80P8ZZP	3- -5		-49	1	9976	4	-14	1	9976	4
1086	B80P8ZZS	3- -6		84	2	9989	4	-20	1	9968	2
1087	B80COMZP	3- -7		-8	5	7950	4	8	5	7950	4
1088	B80COMZS	3- -8		38	6	8927	1	-7	3	8306	2
1089	B80P3MZP	3- -9		-40	2	9969	1	-9	3	7899	2
1090	B80P3MZS	3- -10		94	3	9977	1	-2	2	6647	2
1091	B80P8MZP	3- -11		14	2	9673	4	-1	2	9673	4
1092	B80P8MZS	3- -12		33	4	9358	1	0	5	1599	2
1093	B80COMFP	3- -13	YES	0	0	1 0000	1	0	0	1 0000	2
1094	B80COMFS	3- -14		-1	4	9872	1	-8	20	3178	4
1095	B80P9MFP	3- -15		39	5	9635	4	11	4	6735	2
1096	B80P9MFS	3- -16		-21	13	5930	1	-51	25	7912	3
1097	B80COFIP	3- -17		59	1	9977	1	0	1	9384	2
1098	B80COFIS	3- -18		-141	3	9993	1	-3	3	3708	2
1099	B80P6FIP	3- -19		45	2	9896	1	2	2	9095	2
1100	B80P6FIS	3- -20		38	2	9890	1	-13	2	8802	2
1101	B80S4ZZP	3- -21		-111	3	9991	1	5	2	9753	2
1102	B80S4ZZS	3- -22		243	3	9997	1	-3	2	6231	2
1103	B80S8ZZP	3- -23		-82	4	9945	3	13	1	9854	2
1104	B80S8ZZS	3- -24		174	8	9954	4	-17	7	6602	2
1105	B80S4MZP	3- -25		-30	2	9960	1	-2	3	0869	2
1106	B80S4MZS	3- -26		40	2	9925	1	13	2	9731	2
1107	B80S8MZP	3- -27		10	4	7340	4	0	2	6772	2
1108	B80S8MZS	3- -28		50	2	9955	1	-16	5	9839	4
1109	B80S7MFP	3- -29		6	1	8994	1	-2	2	8411	4
1110	B80S7MFS	3- -30		-17	5	9766	1	17	4	9572	2
1111	B80S6FIP	3- -31		38	4	9720	3	-10	4	9720	3
1112	B80S6FIS	3- -32		59	14	8724	4	21	14	8724	4
1113	B80COHHRH	3- -33		-3	10	6729	1	-20	21	4385	3
1114	B80COHHRD	3- -34		-118	2	9992	1	8	1	9530	2
1115	B80COHHRV	3- -35		-64	3	9963	1	-1	4	5427	2
1116	B80P711RV	3- -36		18	2	9573	1	0	2	3836	2
1117	B80P711RD	3- -37		-9	3	9861	1	11	4	8634	2
1118	B80P711RH	3- -38		-74	5	9902	4	19	4	9254	2
1119	B80P11FIRV	3- -39		41	5	9712	3	8	5	9712	3
1120	B80P11FIRD	3- -40		9	4	9851	1	-33	9	9045	4
1121	B80P11FIRH	3- -41		-20	4	9908	4	-49	2	9953	2
1122	B80P12FFRV	3- -42	YES	0	0	1 0000	1	0	0	1 0000	2
1123	B80P12FFRD	3- -43		16	1	9769	1	27	1	9928	2
1124	B80P12FFRH	3- -44		-17	3	9885	1	-8	4	6919	2
1125	B80S711RH	3- -45		-94	3	9988	1	-10	2	8808	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1126	B80S711RD	3- -46	YES	0	0	1 0000	1	0	0	1 0000	2
1127	B80S711RV	3- -47		-41	6	9801	1	29	12	6425	2
1128	B80S11FIRH	3- -48		-5	10	0689	1	5	3	6885	2
1129	B80S11FIRD	3- -49		-72	3	9966	1	-43	1	9979	2
1130	B80S11FIRV	3- -50		-23	6	9771	1	-49	2	9925	2
1131	B80S12FFRH	3- -51		-19	3	9813	4	13	1	9801	2
1132	B80S12FFRD	3- -52	YES	0	1	1973	4	0	1	1973	4
1133	B80S12FFRV	3- -53		-25	5	9756	1	-26	2	9892	2
1134	H84 SS21P(CU)	3- -54		-279	3	9998	4	179	2	9996	2
1135	H101P20P(UC)	3- -55		-71	6	9816	4	-22	2	9656	2
1136	H100P20P(AC)	3- -56		-55	2	9962	4	-27	2	9915	2
1137	B98COMMP(C)	3- -57		56	6	9458	1	8	3	9128	2
1138	M101 3COW(C)	3- -58		-123	6	9965	1	0	3	8920	2
1139	M101 3COW(C)	3- -59		-6	3	6794	4	-1	1	2944	2
1140	B80CMF(D)	3- -60		-6	4	5604	4	0	1	9434	2
1141	M73P13P	3-A- 1		-354	4	9998	1	63	2	9981	2
1142	M73P12W	3-A- 2		-458	2	9999	4	-263	2	9999	2
1143	M73P10 1P	3-A- 3		-391	5	9996	1	-202	3	9995	2
1144	M73P8W	3-A- 4		-383	5	9996	1	-117	7	9992	4
1145	M73P6W	3-A- 5		-368	7	9990	4	-109	6	9949	2
1146	M73P2W	3-A- 6		-389	2	9999	4	-9	1	9467	2
1147	M73COW	3-A- 7		-397	4	9998	1	0	2	5633	2
1148	M73S2W	3-A- 8		-349	4	9998	4	26	2	9890	2
1149	M73S4W	3-A- 9		-463	4	9998	1	-276	3	9997	2
1150	M73S6W	3-A-10		-348	3	9998	1	98	2	9989	2
1151	M73S8W	3-A-11		-360	3	9999	1	111	4	9956	2
1152	M73S9W	3-A-12		-385	3	9999	4	134	1	9997	2
1153	M73S9 5P	3-A-13	YES	0	0	1 0000	1	0	0	1 0000	2
1154	M73S10 1P	3-A-14		-402	7	9996	4	201	3	9995	2
1155	M73S11W	3-A-15		-433	3	9999	4	246	3	9997	2
1156	M73S11 5P	3-A-16		-384	2	1 0000	4	238	2	9998	2
1157	M73S12P	3-A-17		-430	2	9999	1	273	3	9997	2
1158	M73S12 5P	3-A-18		-469	5	9999	4	287	2	9998	2
1159	M73S13P	3-A-19		-485	3	9999	4	295	2	9999	2
1160	Z73COW	3-A-20		-587	6	9998	1	1	3	8245	2
1161	Z73S2W	3-A-21		-622	5	9999	1	43	2	9956	2
1162	Z73S4W	3-A-22		-555	3	9999	1	64	3	9947	2
1163	Z73S6W	3-A-23		-720	27	9960	3	115	3	9982	2
1164	Z73S8W	3-A-24		-764	11	9994	3	179	3	9994	2
1165	Z73S9W	3-A-25		-744	4	9999	1	177	5	9999	3
1166	Z73S9 5P	3-A-26		-755	32	9948	3	206	5	9983	2
1167	Z73S10W	3-A-27		-901	6	9999	3	218	4	9994	2
1168	Z73S11P	3-A-28		-878	39	9965	4	226	39	9965	4
1169	Z73P6W	3-A-29		-729	12	9992	4	-118	4	9977	2
1170	Z73P10W	3-A-30		-704	10	9994	4	-162	5	9975	2
1171	W73SMZ0 1P	3-A-31		-430	2	1 0000	1	200	2	1 0000	4
1172	W73SMZ2 0W	3-A-32		-361	16	9951	1	169	18	9731	2
1173	W73SZM3 9P	3-A-33		-790	5	9999	1	224	5	9999	4
1174	H78S20P(CL)	3-A-34		-239	3	9999	4	217	3	9999	4
1175	H73S1W	3-A-35		528	4	9999	1	17	5	9998	3
1176	H73S3W	3-A-36		486	5	9997	1	44	9	8822	2
1177	H73P3W	3-A-37		572	5	9998	1	-25	3	9488	2
1178	H73S5W	3-A-38		424	3	9998	4	66	3	9998	4
1179	H73S7W	3-A-39		422	3	9998	4	117	3	9989	2
1180	H73P7W	3-A-40		356	3	9998	1	-136	3	9983	2
1181	H73S9W	3-A-41		373	3	9998	4	144	1	9999	2
1182	H73S11W	3-A-42	YES	0	0	1 0000	1	0	0	1 0000	2
1183	H73P11W	3-A-43		329	2	1 0000	4	-179	2	9998	2
1184	H73S12W	3-A-44		355	5	9994	1	201	3	9995	2
1185	H73S13W	3-A-45		323	5	9995	4	219	5	9995	4
1186	H73P13W	3-A-46		349	5	9998	4	-228	4	9994	2
1187	H73S14W	3-A-47		238	3	9995	1	226	2	9998	2
1188	H73S15W	3-A-48		114	4	9998	3	241	2	9998	2
1189	H73P15W	3-A-49		122	7	9993	4	-243	5	9992	2
1190	H73S16 5P	3-A-50		-44	6	9994	4	258	3	9997	2
1191	H73P16 5P	3-A-51		-34	3	9997	4	-237	3	9996	2
1192	H73S18W	3-A-52	YES	3	4	3982	1	0	0	1 0000	2
1193	H73S20W	3-A-53		-393	5	9997	1	280	1	9999	2
1194	H73P20W	3-A-54		-384	3	9999	4	-272	3	9999	4
1195	H79 SS18P(AC)	3-A-55		59	4	9763	1	-51	2	9944	2
1196	I98 1COP(C)	3-A-56		-124	5	9970	4	6	4	5257	2
1197	B98S6MMP(C)	3-A-57		254	7	9985	4	-21	2	9629	2
1198	H17S17W(C)	3-A-58		-63	6	9870	4	28	2	9933	2
1199	RESISTOP	3-A-59		-8	17	0680	3	-4	4	6797	2
1200	H76S19(D)	3-A-60		0	6	9575	1	2	6	7047	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1201	275COW	3-B-1		.533	4	9999	1	1	2	9213	2
1202	277COW	3-B-2		.508	3	9999	4	0	1	5577	2
1203	279COW	3-B-3		.421	2	9999	4	3	2	7582	7
1204	279 5COW	3-B-4	YES	0	0	1 0000	1	0	0	1 0000	2
1205	283COW	3-B-5		.363	6	9994	1	14	4	7918	2
1206	285COW	3-B-6		.239	2	9999	4	6	2	8151	2
1207	W83PZM3 9P	3-B-7		.345	4	9997	4	.111	1	9996	2
1208	Z83P6W	3-B-8		.396	2	9999	4	.62	2	9984	2
1209	RESISTOR	3-B-9	YES	1	2	4465	1	0	0	1 0000	2
1210	Z83S6W	3-B-10		.342	3	9998	4	65	2	9980	2
1211	Z79 5S6W	3-B-11		.475	3	9999	1	77	3	9975	2
1212	Z79 5S9 9P	3-B-12		.537	5	9998	1	148	2	9994	2
1213	W83SMZ0 1P	3-B-13	YES	0	0	1 0000	1	0	0	1 0000	2
1214	W83SMZ2 0W	3-B-14		.199	3	9996	1	94	2	9989	2
1215	W83SZM3 9P	3-B-15	YES	0	0	1 0000	1	0	0	1 0000	2
1216	M75COW	3-B-16		.311	4	9997	1	130	2	9997	2
1217	M75S10 1P	3-B-17		.404	3	9998	3	205	2	9998	2
1218	M75S13P	3-B-18		.410	4	9998	1	277	2	9999	2
1219	M77COW	3-B-19		.411	2	9999	1	[illegible]	2	8536	2
1220	M77S10 1P	3-B-20		.469	5	9998	1	192	3	9995	2
1221	M77S13P	3-B-21		.335	3	9998	1	244	3	9996	2
1222	B80P611W(C)	3-B-22		.34	3	9879	1	2	4	5284	2
1223	M77P13P	3-B-23	YES	0	0	1 0000	1	0	0	1 0000	2
1224	M79COW	3-B-24		.359	3	9999	1	3	2	6805	2
1225	M79S10 1P	3-B-25		.319	2	9999	3	146	2	9999	3
1226	M79S13P	3-B-26		.249	3	9997	1	176	2	9999	4
1227	M85COW	3-B-27		.283	2	9999	4	3	2	9999	4
1228	M81S10 1P	3-B-28		262	5	9993	1	151	3	9991	2
1229	M81S13P	3-B-29		290	2	9999	1	164	2	9999	4
1230	M81P10 1P	3-B-30		.226	2	9999	1	.147	4	9984	2
1231	M81P13P	3-B-31		.323	3	9998	4	.141	3	9998	4
1232	M83COW	3-B-32	YES	0	0	1 0000	1	0	0	1 0000	2
1233	M83S10 1P	3-B-33		271	2	9999	4	149	2	9999	4
1234	M83S13P	3-B-34		346	2	9999	1	195	1	9999	2
1235	M81COW	3-B-35		.348	3	9999	1	0	1	1343	2
1236	M85S10 1P	3-B-36		.248	3	9997	1	103	2	9988	2
1237	M85S13P	3-B-37		195	2	9998	1	133	3	9988	2
1238	M85P10 1P	3-B-38		329	2	9999	4	92	2	9923	2
1239	M85P13P	3-B-39		.210	2	9997	4	.124	2	9995	2
1240	F81 5S14INS (B)	3-B-40		12	2	9842	1	.56	3	9896	2
1241	M81S5 5P	3-B-41		373	3	9999	1	38	1	9969	2
1242	M83S5 5P	3-B-42	YES	0	0	1 0000	1	0	0	1 0000	2
1243	M83P10 1P	3-B-43		.293	3	9997	4	.133	1	9997	2
1244	M83P13P	3-B-44	YES	0	0	1 0000	1	0	0	1 0000	2
1245	Z73COP	3-B-45		196	4	9988	1	2	2	8907	2
1246	Z77COP	3-B-46		272	2	9998	4	.1	2	1136	2
1247	Z81COP	3-B-47		256	3	9995	1	.4	3	8550	2
1248	F81CONA	3-B-48		.20	3	9320	3	5	2	7564	2
1249	F85CONA	3-B-49		.50	5	9768	4	4	3	9292	2
1250	B80P8MMRH	3-B-50		3	4	9355	1	.21	3	9160	2
1251	B80P8MMRC	3-B-51		.46	2	9945	4	.20	1	9939	2
1252	B80P8MMRV	3-B-52	YES	0	0	1349	3	0	0	1349	3
1253	B80P9MFRH	3-B-53		.73	4	9935	4	.22	1	9850	2
1254	B80P9MFRC	3-B-54		77	3	9963	1	.22	2	9802	2
1255	B80P9MFRV	3-B-55		5	3	6792	4	.2	3	4655	2
1256	Z85COP	3-B-56		314	4	9996	4	3	3	3756	2
1257	RESISTOR	3-B-57	YES	1	1	3107	1	0	0	1 0000	2
1258	RESISTOR	3-B-58		5	4	8045	1	2	5	3812	2
1259	RESISTOR	3-B-59		.214	266	4788	3	.159	266	4788	3
1260	M83P19(D)	3-B-60		.2	3	9759	1	4	2	7603	2
1261	B86COZZP	2- -1		114	4	9961	1	.1	1	9338	2
1262	B86COZZS	2- -2		.404	3	9999	3	6	2	9220	2
1263	B86P3ZZP	2- -3		71	1	9990	4	7	1	9028	2
1264	B86P3ZZS	2- -4		.267	3	9998	1	.8	3	9997	3
1265	B86P8ZZP	2- -5		68	3	9889	1	.2	4	8848	2
1266	B86P8ZZS	2- -6		183	1	9999	1	3	3	7161	2
1267	B86COMZP	2- -7		5	2	9686	1	2	2	5318	2
1268	B86COMZS	2- -8		78	5	9919	1	3	3	6440	2
1269	B86P3MZP	2- -9		18	11	6381	4	.2	11	2267	2
1270	B86P3MZS	2- -10		.8	4	4586	4	4	2	8758	2
1271	B86P8MZP	2- -11		5	2	9260	4	10	2	9183	2
1272	B86P8MZS	2- -12		.22	2	9930	1	16	2	95[illegible]	2
1273	B86COMFP	2- -13		0	2	6783	4	3	2	6783	4
1274	B86COMFS	2- -14		.188	2	9997	3	6	2	8252	2
1275	B86P9MFP	2- -15		.34	4	9752	4	4	2	6926	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1276	B86P9MFS	2- -16		-49	4	9930	1	36	3	9877	2
1277	B86COFIP	2- -17		-19	2	9906	1	3	1	8052	2
1278	B86COFIS	2- -18		18	2	9779	4	5	2	6910	2
1279	B86P6FIP	2- -19		-34	3	9829	3	8	2	9418	2
1280	B86P6FIS	2- -20	YES	-43	2	9962	1	-1	2	5441	2
1281	B86S4ZZP	2- -21		34	2	9867	1	-1	2	1122	2
1282	B86S4ZZS	2- -22		200	2	9998	1	22	6	7885	2
1283	B86S8ZZP	2- -23		76	1	9990	1	-1	2	2298	2
1284	B86S8ZZS	2- -24	YES	-183	5	9966	4	8	[illegible]	8848	2
1285	B86S4MZP	2- -25		7	3	9890	1	1	2	9126	2
1286	B86S4MZS	2- -26		-90	2	9957	4	5	1	8791	2
1287	B86S8MZP	2- -27		14	2	9689	1	-12	2	9820	4
1288	B86S8MZS	2- -28		19	5	7844	1	-17	5	9038	2
1289	B86S2MFP	2- -29		-37	2	9944	1	5	2	6291	2
1290	B86S2MFS	2- -30		16	6	7569	1	8	2	9515	2
1291	B86S6FIP	2- -31		-19	2	9532	1	-11	2	8431	2
1292	B86S6FIS	2- -32		-50	3	9912	3	7	3	9912	3
1293	B86COHHRH	2- -33		15	2	9549	1	7	3	8523	2
1294	B86COHHRD	2- -34		-9	2	9895	1	6	2	9014	2
1295	B86COHHRV	2- -35		71	3	9976	1	0	2	7145	2
1296	B86P711RV	2- -36	YES	1	1	8936	1	1	1	6143	2
1297	B86P711RD	2- -37		19	3	9154	1	26	3	9783	2
1298	B86P711RH	2- -38		-57	1	9996	1	9	1	9778	2
1299	B86P11FIRV	2- -39		3	9	8726	4	23	6	9014	2
1300	B86P11FIRH	2- -40	YES	0	0	2401	1	0	0	0000	2
1301	B86P11FIRD	2- -41		-63	3	9966	1	2	2	9243	2
1302	B86P12FFRV	2- -42		15	2	5776	1	22	2	9674	2
1303	B86P12FFRD	2- -43		81	3	9957	1	21	5	9940	3
1304	B86P12FFRH	2- -44		30	3	9780	1	6	4	4682	2
1305	B86S711RH	2- -45		-127	3	9993	1	-3	2	8295	2
1306	B86S711RD	2- -46		-117	3	9988	1	6	3	9015	2
1307	B86S711RV	2- -47		-25	7	8737	4	-21	5	8319	2
1308	B86S11FIRH	2- -48		-89	14	9700	1	-22	16	5435	2
1309	B86S11FIRD	2- -49		-37	1	9983	1	-7	1	9351	2
1310	B86S11FIRV	2- -50		0	3	9917	4	-33	2	9925	2
1311	B86S12FFRH	2- -51		0	2	8982	4	-5	2	7880	2
1312	B86S12FFRD	2- -52		56	3	9972	4	23	2	9759	2
1313	B86S12FFRV	2- -53		50	2	9979	4	-34	2	5922	2
1314	H84 SS21P(CM)	2- -54		-229	2	9999	4	175	2	9999	4
1315	H84 SS21P(CL)	2- -55		-250	8	9978	1	179	4	998[illegible]	2
1316	RESISTOR	2- -56		-1	4	8658	1	2	4	85[illegible]	2
1317	RESISTOR	2- -57		0	4	2096	3	2	2	5218	2
1318	RESISTOR	2- -58		1	4	2067	3	3	3	7423	2
1319	RESISTOR	2- -59		3	3	9569	1	3	3	8516	2
1320	A78P3MZ(D)	2- -60		3	4	9777	1	-4	4	8[illegible]86	2
1321	B92COZZP	2-A-1		190	10	9926	4	54	4	9515	2
1322	B92COZZS	2-A-2		403	5	9997	1	28	3	9847	2
1323	B92P4ZZP	2-A-3		49	7	9307	1	19	4	8544	2
1324	B92P4ZZS	2-A-4		-192	5	9985	4	26	2	9829	2
1325	B92P8ZZP	2-A-5		130	25	9212	4	18	7	9057	2
1326	B92P8ZZS	2-A-6		45	17	7612	4	24	8	8271	2
1327	B92COMZP	2-A-7		23	7	9157	4	21	3	9696	2
1328	B92COMZS	2-A-8		-8	6	6531	4	14	3	9305	2
1329	B92P4MZP	2-A-9		33	5	8946	1	30	5	9550	2
1330	B92P4MZS	2-A-10		-30	15	8515	3	10	12	3972	2
1331	B92P8MZP	2-A-11		63	14	9747	4	55	3	9918	2
1332	B92P8MZS	2-A-12		-56	14	9563	4	22	6	9241	2
1333	B92COMFP	2-A-13		-11	11	6160	4	11	5	8101	2
1334	B92COMFS	2-A-14		-168	3	9990	3	3	2	8314	2
1335	B92P8MFP	2-A-15		-100	7	9917	1	26	2	9847	2
1336	B92P8MFS	2-A-16		-145	6	9978	1	-19	9	5590	2
1337	B92COFIP	2-A-17		2	49	2090	1	-46	182	1281	3
1338	B92COFIS	2-A-18		11	21	2121	1	6	9	4743	2
1339	B92P6FIP	2-A-19		-66	7	9702	3	14	7	9702	3
1340	B92P6FIS	2-A-20	YES	-45	2	9969	1	0	2	8655	2
1341	B92S4ZZP	2-A-21		-1	15	5739	4	46	4	9698	2
1342	B92S4ZZS	2-A-22		-207	33	9557	4	65	28	6270	2
1343	B92S8ZZP	2-A-23		91	14	9429	3	-29	4	9432	2
1344	B92S8ZZS	2-A-24	YES	-129	14	9774	3	-29	14	9774	3
1345	B92S4MZP	2-A-25		3	8	9468	1	-13	13	5075	2
1346	B92S4MZS	2-A-26		63	7	9926	4	-44	4	9751	2
1347	B92S8MZP	2-A-27		-62	7	9880	3	-37	3	9874	2
1348	B92S8MZS	2-A-28		-68	12	9609	3	-12	6	6850	2
1349	B92S2MFP	2-A-29		0	4	3339	3	1	2	1532	2
1350	B92S2MFS	2-A-30		-40	6	9352	4	6	2	9564	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	VERTICAL LOADING ONLY: ERROR OF ESTIMATE	VERTICAL LOADING ONLY: CORRELATION COEFFICIENT	VERTICAL LOADING ONLY: FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	LATERAL LOADING ONLY: ERROR OF ESTIMATE	LATERAL LOADING ONLY: CORRELATION COEFFICIENT	LATERAL LOADING ONLY: FROM TEST
1351	B92S6FIP	2-A-31		-68	6	9909	1	-5	5	4267	2
1352	B92S6FIS	2-A-32		-49	4	9908	1	10	4	7810	2
1353	B92P 2HHRH	2-A-33		-58	6	9816	1	28	15	5883	2
1354	B92P 2HHRD	2-A-34		-83	3	9970	4	10	3	8539	2
1355	B92P 2HHRV	2-A-35		-9	3	9892	1	4	2	9544	2
1356	B92P711RV	2-A-36	YES	1	1	2348	4	0	1	8083	2
1357	B92P711RD	2-A-37		-103	4	9964	4	-14	4	8786	2
1358	B92P711RH	2-A-38		-98	3	9970	3	2	3	1516	2
1359	B92P11FIRV	2-A-39		4	3	9714	1	19	3	9538	2
1360	B92P11FIRD	2-A-40	YES	0	1	1971	3	0	1	1971	2
1361	B92P11FIRH	2-A-41		-65	5	9922	1	8	6	5541	2
1362	B92P11 9FFRV	2-A-42		22	4	9242	1	24	5	9602	3
1363	B92P11 9FFRD	2-A-43		49	3	9794	1	13	3	9665	2
1364	B92P11 9FFRH	2-A-44		17	3	8485	1	40	7	9309	2
1365	B92S711RH	2-A-45		-67	3	9971	1	-2	4	0773	2
1366	B92S711RD	2-A-46		-45	4	9794	3	21	4	9794	3
1367	B92S711RV	2-A-47		-40	4	9928	1	-18	4	8395	2
1368	B92S11FIRH	2-A-48		-70	4	9959	1	-28	5	9131	2
1369	B92S11FIRD	2-A-49		0	3	8450	3	9	3	8450	3
1370	B92S11FIRV	2-A-50		-14	10	4868	4	-3	3	2013	2
1371	B92S11 9FFRH	2-A-51		14	5	6643	1	-55	4	9315	4
1372	B92S11 9FFRD	2-A-52		34	5	9523	1	-32	4	9589	2
1373	B92S11 9FFRV	2-A-53		28	5	8875	1	-18	5	8584	2
1374	F91S11 9P(BB)	2-A-54		155	7	9945	1	-86	6	9894	2
1375	M87 SP10S(PST)	2-A-55		-253	2	9999	3	-89	2	9999	3
1376	RESISTOR	2-A-56		10	8	4465	3	-4	6	8828	2
1377	RESISTOR	2-A-57	YES	-239	326	0890	1	0	0	1 0000	2
1378	RESISTOR	2-A-58		-4	8	6544	1	-2	6	7038	2
1379	RESISTOR	2-A-59	YES	10	12	1491	1	0	0	1 0000	2
1380	M79 SCO(D)	2-A-60		-5	5	9733	1	-5	4	7025	2
1381	M93 6P8W	2-B-1		-299	4	9997	1	-66	2	9973	2
1382	M93 6P8 SP	2-B-2		-298	3	9998	1	-65	2	9972	2
1383	M93 6P9W	2-B-3		-298	2	9999	3	-81	2	9987	2
1384	M93 6P9 SP	2-B-4		-224	2	9998	4	-52	2	9998	4
1385	M93 6P10W	2-B-5		-303	3	9998	1	-87	4	9929	2
1386	M93 6P11W	2-B-6		-259	1	9999	1	-81	1	9994	2
1387	M92 8P8W	2-B-7		-89	5	9945	1	-85	3	9976	2
1388	M92 8P8 5RH	2-B-8		174	2	9997	1	46	3	9996	3
1389	M92 8P8 5RD	2-B-9		18	2	9779	1	-127	3	9986	2
1390	M92 8P8 5RL	2-B-10		-399	2	1 0000	1	-78	2	9986	2
1391	M92 8P9W	2-B-11		-361	2	1 0000	3	-85	2	9990	2
1392	M92 8P9 SP	2-B-12		-261	4	9993	4	-61	1	9987	2
1393	M92 8P10W	2-B-13		-306	2	9999	3	-86	2	9999	3
1394	M92 8P11W	2-B-14		-201	2	9998	1	-91	1	9993	2
1395	M92 8P12W	2-B-15		-232	3	9997	1	-69	1	9996	2
1396	M92 2P8W	2-B-16		-52	7	9827	1	-99	4	9964	2
1397	H85 9P17P(LP)	2-B-17		-7	3	9992	3	-138	1	9997	2
1398	M92 2P8 SP	2-B-18		139	25	9417	3	-141	4	9984	2
1399	B92P7MMS(C)	2-B-19		-183	7	9968	4	-20	3	9187	2
1400	M92 3P9S	2-B-20		-322	7	9991	1	-96	3	9980	2
1401	M92 3P9 2RH	2-B-21		52	5	9644	1	49	3	9945	2
1402	M92 3P9 2RD	2-B-22		82	8	9878	3	-96	2	9984	2
1403	M92 3P9 2RL	2-B-23		-398	2	1 0000	1	-80	3	9976	2
1404	M92 3P9 SP	2-B-24	YES	-511	4	9998	4	-97	3	9982	2
1405	M92 3P10S	2-B-25		-299	3	9999	1	-89	2	9978	2
1406	M92 3P11S	2-B-26		-219	2	9995	1	-103	2	9993	2
1407	M92 3P12S	2-B-27		-261	2	9999	1	-72	3	9953	2
1408	M91 6P8S	2-B-28		-411	10	9986	1	-39	9	8888	2
1409	M91 6P8 2P	2-B-29		-242	7	9998	1	-86	2	9987	2
1410	M91 6P8 SP	2-B-30		-273	4	9994	1	-77	5	9993	3
1411	M91 6P9W	2-B-31		-204	27	9758	3	-80	3	9959	2
1412	M91 6P9 SP	2-B-32		-226	3	9997	1	-93	3	9974	2
1413	M91 6P9 7RL	2-B-33		-216	9	9979	3	-98	9	9979	3
1414	M91 6P9 7RH	2-B-34		455	25	9935	1	-84	21	9472	2
1415	M91 6P9 7RD	2-B-35		66	2	9945	1	52	3	9939	2
1416	M91 6P10W	2-B-36	YES	2	2	5142	3	0	2	5142	3
1417	M91 6P11W	2-B-37		-307	3	9998	3	-54	3	9998	3
1418	M91 6P12W	2-B-38		-269	6	9990	1	-88	2	9984	2
1419	H86 1P19P(HSU)	2-B-39		681	3	1 0000	1	-56	3	9941	2
1420	H86 1P19P(HSL)	2-B-40	YES	0	7	2242	1	0	0	1 0000	2
1421	B64S 1MMP(CUST)	2-B-41		5	13	6477	1	-17	4	9208	2
1422	H71 9P15P(C)	2-B-42		263	5	9952	1	-284	5	9998	4
1423	H71P9P(C)	2-B-43		323	6	9992	3	-152	4	9987	2
1424	B64P8 SMFRV(BB)	2-B-44		-48	6	9812	3	-22	3	9742	2
1425	B64P8 SMFRD(BB)	2-B-45		-217	9	9952	4	-34	3	9859	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1426	B64P8 SMFRH(BB)	2-B-46		-120	12	9784	4	10	9	5655	2
1427	M80S9S(SU)	2-B-47		-85	4	9985	4	98	2	9988	2
1428	M80S9S(SL)	2-B-48		104	5	9930	3	33	4	9803	2
1429	H79 SS18P(FC)	2-B-49		46	2	9922	1	-52	1	5589	2
1430	H79S20P(CU)	2-B-50		158	2	1 0000	4	221	2	1 0000	2
1431	RESISTOR	2-B-51		2	9	1643	3	4	6	6642	2
1432	RESISTOR	2-B-52		-2	1	4647	1	0	0	1 0000	2
1433	RESISTOR	2-B-53	YES	-23	26	3894	1	0	0	1 0000	2
1434	RESISTOR	2-B-54	YES	22	25	3907	1	0	0	1 0000	2
1435	RESISTOR	2-B-55		3	4	9265	1	4	4	8210	2
1436	RESISTOR	2-B 56		1	4	8902	1	4	4	8513	2
1437	RESISTOR	2-B-57		2	5	6254	1	4	6	6571	2
1438	RESISTOR	2-B-58		0	4	9155	1	4	4	6732	2
1439	RESISTOR	2-B-59	YES	-14	16	3896	1	0	0	1 0000	2
1440	H89P19(D)	2-B-60		2	6	9646	1	-1	3	8983	2
1441	Z87COW	1- -1		-201	4	9988	3	0	2	7833	2
1442	Z89COW	1- -2		-183	3	9994	1	14	2	9531	2
1443	Z91COW	1- -3		-55	4	7961	1	-2	2	8649	2
1444	W91 9SMZO 1RL	1- -4	YES	-23	5	9813	1	25	2	9902	2
1445	W91 9SMZO 1RD	1- -5		-990	18	9993	4	67	3	9976	2
1446	W91 9SMZO 1RV	1- -6		57	15	9486	4	-51	2	9947	2
1447	M87COW	1- -7		-319	16	9939	3	2	16	9939	3
1448	M87S9 1P	1- -8		-270	11	9975	4	97	8	9824	2
1449	M87S12	1- -9		-226	2	9999	4	110	2	9999	4
1450	M89COW	1- -10	YES	0	0	1 0000	1	0	0	1 0000	2
1451	M89S9 1P	1- -11		-256	2	9998	3	96	2	9994	2
1452	M89S12	1- -12	YES	0	0	1 0000	1	0	0	1 0000	2
1453	M89P9 1P	1- -13		-228	3	9997	1	-102	3	9972	2
1454	M89P12	1- -14	YES	0	0	1 0000	1	0	0	1 0000	2
1455	M91COW	1- -15		-195	22	9735	3	-16	22	9735	3
1456	M91S9 1P	1- -16		-259	7	9980	3	71	7	9980	3
1457	M91S12	1- -17		-285	2	9999	3	104	1	9998	2
1458	M93COW	1- -18	YES	0	0	1 0000	1	0	0	1 0000	2
1459	M93S12	1- -19		-199	2	9999	1	91	3	9981	2
1460	M93P12	1- -20	YES	0	0	1 0000	1	0	0	1 0000	2
1461	M97COW	1- -21		-159	2	9996	1	1	2	1932	2
1462	M97S12	1- -22		-42	1	9986	1	63	3	9955	2
1463	M97P12	1- -23		-67	3	9968	1	-49	2	9961	2
1464	M99COW	1- -24		-153	3	9992	1	0	2	2353	2
1465	M99S12	1- -25		-56	2	9990	4	34	2	9990	4
1466	M101COW	1- -26		-126	3	9994	1	-4	3	9395	2
1467	M101S12	1- -27		-114	3	9574	3	41	2	9890	2
1468	M101P12	1- -28	YES	0	0	1 0000	1	0	0	1 0000	2
1469	M103COW	1- -29		0	0	1 0000	1	-4	2	9994	4
1470	M103S11	1- -30		-116	5	9968	1	36	5	9640	2
1471	M105COW	1- -31		-130	4	9985	1	2	4	5674	2
1472	M105S11	1- -32		-150	4	9991	1	26	3	9881	2
1473	M105P11	1- -33	YES	0	0	1 0000	1	0	0	1 0000	2
1474	M107S11	1- -34		-94	2	9995	4	32	1	9572	2
1475	M107COW	1- -35		-208	3	9996	3	-1	2	4514	2
1476	F89CONA	1- -36		-5	2	8478	3	-2	1	2303	2
1477	I89COP	1- -37		184	2	9996	1	-2	2	6969	2
1478	F93CONA	1- -38		65	3	9916	1	0	2	4545	2
1479	I93COP	1- -39	YES	0	0	1 0000	1	0	0	1 0000	2
1480	F97CONA	1- -40		64	6	9802	4	-4	3	6203	2
1481	I97COP	1- -41		152	4	9980	1	-1	2	7855	2
1482	F101CONA	1- -42		197	5	9983	1	-2	2	0891	2
1483	I101COP	1- -43		31	15	5228	1	2	12	3024	2
1484	F105CONA	1- -44		177	9	9939	4	-20	8	6562	2
1485	I105COP	1- -45		-69	7	9770	3	-6	3	7082	2
1486	ASMZ79C120	1- -46		-651	4	9999	4	80	2	9988	2
1487	ASMZ79C112(RES)	1- -47		-462	3	9999	3	82	1	9993	2
1488	ASMZ87C315	1- -48		-1744	9	9999	1	108	122	9890	3
1489	ASMZ87C308	1- -49		-1848	7	1 0000	1	246	69	9968	4
1490	ASMZ87C300	1- -50		-1654	7	1 0000	1	195	7	9977	2
1491	ASMZ87C293	1- -51		-1414	6	1 0000	1	183	3	9996	2
1492	ASMZ87RVMF	1- -52		-344	3	9999	1	98	1	9996	2
1493	ASMZ87RDMF	1- -53		225	3	9995	1	139	15	9907	2
1494	ASMZ87RLMF	1- -54		163	5	9971	1	-12	4	7092	2
1495	B92S7MZP(BM)	1- -55		-41	9	9784	4	-60	5	9690	2
1496	B92S7MZS(BM)	1- -56		-186	11	9925	3	-11	10	6337	2
1497	RESISTOR	1- -57		2	3	3029	4	-1	3	3029	4
1498	RESISTOR	1- -58		-8	4	6587	4	2	4	1512	2
1499	RESISTOR	1- -59	YES	0	0	1 0000	1	0	0	1 0000	2
1500	H92P11(D)	1- -60		2	2	9950	1	-1	3	9210	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1501	B98COMMS	1-A- 1		-489	4	9998	3	7	2	9091	2
1502	B98COMMP	1-A- 2		243	11	9948	1	4	3	3130	2
1503	B98P4MMP	1-A- 3		47	6	9366	1	8	3	8777	2
1504	B98P4MMS	1-A- 4	YES	0	0	1 0000	1	0	0	1 0000	2
1505	B98P9MMP	1-A- 5		-149	7	9954	4	10	4	7103	2
1506	B98P9MMS	1-A- 6		-161	12	9897	1	-24	7	72[illegible]	2
1507	B98COMFP	1-A- 7		57	15	8581	4	27	[illegible]	8581	4
1508	B98COMFS	1-A- 8		-73	30	[illegible]245	4	2	1	918[illegible]	2
1509	B98P5MFP	1-A- 9		32	8	8591	4	15	5	66[illegible]	[illegible]
1510	B98P5MFS	1-A-10		116	21	9507	3	42	6	9564	2
1511	B98P6FIP	1-A-11		-22	8	8332	3	28	4	9530	2
1512	B98COFIS	1-A-12	YES	0	0	1 0000	[illegible]	0	0	1 0000	2
1513	B98COFIP	1-A-13		5	9	8321	1	8	1	9677	2
1514	B98P6FIS	1-A-14		-29	9	8289	3	-3	9	8289	3
1515	B98S4MMP	1-A-15		75	8	9724	4	-4	3	4242	2
1516	B98S4MMS	1-A-16		154	18	9669	4	-7	18	9665	4
1517	B98P8MMP	1-A-17		80	11	9461	1	24	5	9368	2
1518	B98S8MMS	1-A-18		-34	19	6832	1	-59	8	9594	2
1519	B98S3MFP	1-A-19		-9	10	9277	1	2	3	8860	2
1520	B98S4MFS	1-A-20		34	11	7682	1	7	6	4305	2
1521	B98S6FIP	1-A-21		-12	9	7183	1	3	3	7492	2
1522	B98S6FIS	1-A-22		-18	8	7772	3	20	2	9622	2
1523	B98P 2HHRH	1-A-23		-134	8	9913	3	6	4	7462	2
1524	B98P 2HHRD	1-A-24		57	12	9428	3	3	4	92[illegible]	2
1525	B98P 2HHRV	1-A-25		-16	9	6911	3	9	3	6570	2
1526	B98P7IIRD	1-A-26		-84	11	9808	1	32	5	9773	2
1527	B98P7IIRV	1-A-27		-171	15	9795	4	-10	3	8765	2
1528	B98P7IIRH	1-A-28		-142	6	9975	1	18	6	9337	2
1529	B98P11 5FIRV	1-A-29		80	12	9615	4	-7	3	5830	2
1530	B98P11 5FIRD	1-A-30		255	9	.9972	4	-32	5	9464	2
1531	B98P11 5FIRH	1-A-31		-201	10	.9931	3	56	6	9790	2
1532	B98P11 9FFRV	1-A-32		-7	7	9786	3	55	5	9887	2
1533	B98P11 9FFRD	1-A-33		251	10	9960	4	13	4	8930	2
1534	B98P11 9FFRH	1-A-34		28	9	9608	4	55	9	9608	4
1535	B98S7IIRH	1-A-35		-97	4	9974	1	-3	5	9033	2
1536	B98S7IIRD	1-A-36		-55	12	9080	3	40	6	9507	2
1537	B98S7IIRV	1-A-37		-26	12	9174	3	-32	3	9757	2
1538	B98S11 5FIRH	1-A-38		-166	9	9940	1	-64	8	9639	2
1539	B98S11 5FIRD	1-A-39		157	15	9828	3	26	15	9828	3
1540	B98S11 5FIRV	1-A-40	YES	-194	206	5446	1	0	0	1 0000	2
1541	B98S11 9FFRH	1-A-41		19	4	9139	1	-104	16	9403	2
1542	B98S11 9FFRD	1-A-42		258	7	9981	1	24	4	9634	2
1543	B98S11 9FFRV	1-A-43		20	8	9241	4	-29	2	9822	2
1544	B98S10MFS	1-A-44		111	30	9326	3	-139	12	9805	2
1545	B98S10MFP	1-A-45		64	14	8251	1	73	12	9589	2
1546	H100P20P(FC)	1-A-46		-513	6	9998	3	420	6	9998	3
1547	ASMM77C1SF	1-A-47		-1001	10	9998	4	-53	5	9834	2
1548	ASMM77C2SF	1-A-48		-28	10	9094	3	-20	5	8293	2
1549	ASMM77C3SF	1-A-49		-264	15	.9943	1	206	8	9966	2
1550	ASMM77C4SF	1-A-50		-250	21	9867	1	175	27	9904	4
1551	ASMM77C5SF	1-A-51		-589	4	9999	3	99	3	9978	2
1552	ASMM77C1SA	1-A-52		-350	6	9993	1	262	3	9998	2
1553	ASMM77C2SA	1-A-53		-351	4	9999	4	267	3	9998	2
1554	ASMM77C3SA	1-A-54		-86	15	9499	3	-23	15	9499	3
1555	ASMM77C4SA	1-A-55		-508	8	9996	3	502	8	9996	3
1556	ASMM77C5SA	1-A-56		-267	8	9996	4	364	6	9993	2
1557	ASMM77P3SA0 5	1 A-57		-935	5	9999	3	100	3	9981	2
1558	ASMM77P3SA1 5	1-A-58		-629	5	9998	3	91	3	9969	2
1559	ASMM77P3SA3 0	1-A-59	YES	0	0	1.0000	1	0	0	1 0000	2
1560	H103S19(D)	1-A-60		-283	10	9985	4	149	2	9997	2
1561	B108P9MFP	1-B- 1		-18	2	9953	1	13	2	9317	2
1562	B108COMMS	1-B- 2		24	5	8485	1	5	2	6087	2
1563	B108P4MMP	1-B- 3		-59	3	.9978	1	10	7	4069	2
1564	B108P4MMS	1-B- 4	YES	0	0	1 0000	1	0	0	1 0000	2
1565	B108P8MMP	1-B- 5		-37	3	9806	3	8	3	9806	3
1566	B108P8MMS	1-B- 6		-39	4	9914	1	7	3	9569	2
1567	RESISTOR	1-B- 7		-2	12	1309	1	34	22	6935	4
1568	B108COMFS	1-B- 8		-40	4	9771	4	8	3	6519	2
1569	B108P4MFP	1-B- 9		-53	2	9980	4	22	2	9980	4
1570	B108P4MFS	1-B-10		83	3	9957	1	18	2	9880	2
1571	RESISTOR	1-B-11		0	5	8216	1	5	6	7885	2
1572	B108COFIS	1-B-12	YES	0	0	1 0000	1	0	0	1 0000	2
1573	B108P6FIP	1-B-13		-22	2	9960	1	19	4	9763	4
1574	B108P6FIS	1-B-14		3	1	9308	4	-5	1	9308	4
1575	B108S4MMP	1-B-15		-68	2	9978	4	1	2	9978	4

TABLE B.3 (Continued)

				VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1576	B108S4MMS	1-B-16		52	2	9982	1	7	2	9763	2
1577	B108S8MMP	1-B-17		40	1	9988	1	[illegible]	1	[illegible]936	2
1578	B108S8MMS	1-B-18		-26	2	9913	4	4	2	9913	4
1579	B108S4MFP	1-B-19		52	3	9982	1	11	2	9797	2
1580	B108S4MFS	1-B-20		88	4	9956	3	9	2	8335	2
1581	B108S6F1P	1-B-21		31	1	9981	1	-3	2	6476	2
1582	B108S6F1S	1-B-22		23	4	9343	4	12	4	9343	4
1583	B108P 2HHRH	1-B-23		531	4	9999	1	-25	2	9769	2
1584	B108P 2HHRD	1-B-24		586	7	9966	3	6	2	9153	1
1585	B108P 2HHRV	1-B-25	YES	0	0	1 0000	1	0	0	1 0000	1
1586	B108P711RV	1-B-26		64	2	9941	1	2	2	9667	2
1587	B108P711RD	1-B-27		11	3	7553	1	-35	3	9904	2
1588	B108P711RH	1-B-28		302	4	9997	1	3	4	9383	2
1589	B108P10 SF1RV	1-B-29		150	3	9993	3	1	3	9993	3
1590	B108P10 SF1RD	1-B-30		341	2	9999	3	-23	1	9942	2
1591	B108P10 SF1RH	1-B-31		-83	3	9973	3	-10	3	9973	2
1592	B108P10 9FFRV	1-B-32		15	2	9943	1	33	3	9856	2
1593	B108P10 9FFRD	1-B-33		265	3	9995	1	14	3	9387	2
1594	B108P10 9FFRH	1-B-34		18	2	9690	1	-13	2	9752	3
1595	B108S711RH	1-B-35		253	2	9998	4	-30	2	9918	2
1596	B108S711RD	1-B-36		33	2	9744	1	19	60	9180	2
1597	B108S711RV	1-B-37		54	2	9965	4	1	1	6231	2
1598	B108S10 SF1RH	1-B-38		-211	3	9997	3	-25	2	9845	2
1599	B108S10 SF1RD	1-B-39		201	2	9998	1	69	2	9978	2
1600	B108S10 SF1RV	1-B-40		293	25	9826	1	-27	92	6648	4
1601	B108S10 9FFRH	1-B-41		-18	3	9898	1	-92	4	9977	3
1602	B108S10 9FFRD	1-B-42		69	6	9751	1	-185	6	9987	4
1603	B108S10 9FFRV	1-B-43		2	2	9375	1	-121	3	9993	4
1604	B108P9MFS	1-B-44		-71	2	9993	1	4	1	9307	2
1605	APMM77C1PA	1-B-45		427	4	9998	1	-469	3	9999	2
1606	APMM77C2PA	1-B-46		-549	2	1 0000	1	-507	2	9999	2
1607	APMM77C3PA	1-B-47		520	2	1 0000	1	-415	2	9999	2
1608	APMM77C4PA	1-B-48		1001	4	1 0000	1	-78	14	9346	2
1609	APMM77C5PA	1-B-49		293	4	9996	1	-175	4	9984	2
1610	APMM77P3PA0 5	1-B-50		360	2	9959	1	-248	4	9998	4
1611	APMM77P3PA1 5	1-B-51		-311	4	9997	1	-225	3	9997	2
1612	APMM77P3PA3 0	1-B-52		-314	2	9999	4	-165	1	9998	2
1613	APMM77C1PF	1-B-53		-560	4	9999	1	-86	2	9981	2
1614	APMM77C2PF	1-B-54		-584	6	9998	1	-76	4	9948	2
1615	APMM77C3PF	1-B-55		879	4	9999	4	-79	3	9963	2
1616	APMM77C4PF	1-B-56		368	5	9996	1	-266	7	9956	2
1617	APMM77C6PF	1-B-57		1003	7	9999	4	51	3	9950	2
1618	ASM279C135	1-B-58		880	6	9999	4	24	3	9715	2
1619	ASM279C127	1-B-59	YES	0	0	1 0000	1	0	0	1 0000	2
1620	H108CFF1C	1-B-60		0	2	9955	1	2	2	9198	2
1621	M95P10W	O-1		150	2	9998	1	-53	2	9948	2
1622	M95P7W	O-[illegible]		253	2	9998	1	-26	2	9728	2
1623	M95P2W	O-2		176	2	9998	1	-4	2	9594	2
1624	M95C0W	O-4	YES	0	0	1 0000	1	0	0	1 0000	2
1625	M95S2W	O-5		181	4	9992	1	8	3	9664	2
1626	M95S4W	O-6		-162	3	9994	1	13	3	9796	2
1627	M95S6W	O-7		-211	8	9974	1	37	6	9652	2
1628	M95S8W	O-8		-267	2	9999	1	35	2	9955	2
1629	M95S10W	O-9		9	5	7712	1	27	4	9756	2
1630	M95S10 SP	O-10		31	6	9735	1	38	3	9919	2
1631	M95S11W	O-11		11	9	9266	4	34	4	9709	2
1632	M95S11 SP	O-12		61	9	9801	1	34	4	9636	2
1633	M95S12W	O-13		-23	5	9667	1	42	3	9930	2
1634	B92P9 SP(BB)	O-14		18	12	4908	4	7	4	9110	2
1635	H95S1W	O-15		167	3	9990	1	3	3	9398	2
1636	H95S4W	O-16		157	6	9957	1	11	4	9458	2
1637	H95P4W	O-17		145	2	9991	1	-24	2	9677	2
1638	H95S5W	O-18		137	3	9984	1	21	2	9940	2
1639	H95S7W	O-19		141	2	9990	1	29	2	9955	2
1640	H95P7W	O-20		137	1	9996	1	-32	2	9800	2
1641	H95S9W	O-21		104	2	9983	1	34	2	9971	2
1642	H95S11W	O-22	YES	0	0	1 0000	1	0	0	1 0000	2
1643	H95P11W	O-23		81	3	9946	1	-46	2	9920	2
1644	H95S12W	O-24		85	2	9967	1	48	2	9977	2
1645	H95S13W	O-25		78	3	9949	1	47	2	9978	2
1646	H95P13W	O-26	YES	0	0	1 0000	1	0	0	1 0000	2
1647	H95S15W	O-27		6	3	9901	1	56	2	9985	2
1648	H95S16 SP	O-28		-56	4	9969	1	61	3	9968	2
1649	H95P16 SP	O-29		-35	2	9974	1	-62	2	9958	2
1650	H95S17W	O-30		57	2	9980	1	60	2	9986	2

TABLE B.3 (Continued)

				VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1651	H95S17W	O- -31		-112	3	9991	1	63	2	9974	2
1652	H95S19W	O- -32		-126	3	9985	4	-61	2	9979	2
1653	M80S9S(BMSU)	O- -33		-151	5	9980	1	44	8	9931	3
1654	B92SMM7(BMSL)	O- -34		-585	7	9996	1	-77	3	9941	2
1655	H49COP	O- -35	YES	0	0	1 0000	1	0	0	1 0000	2
1656	H61COP	O- -36	YES	0	0	1 0000	1	0	0	1 0000	2
1657	H73COP	O- -37	YES	0	0	1 0000	1	0	0	1 0000	2
1658	H75COP	O- -38		568	13	9987	3	-12	13	9987	3
1659	H77COP	O- -39	YES	0	0	1 0000	1	0	0	1 0000	2
1660	H79COP	O- -40		504	5	9996	1	-10	4	8403	2
1661	H81COP	O- -41		456	2	9999	1	-7	2	5849	2
1662	H83COP	O- -42	YES	0	0	1 0000	1	0	0	1 0000	2
1663	H85COP	O- -43		406	8	9990	1	[illegible]	8	9950	2
1664	H87COP	O- -44		335	3	9998	1	1	3	7860	2
1665	H91COP	O- -45		248	5	9990	3	-5	4	5953	2
1666	H93COP	O- -46		229	3	9993	1	10	7	4104	2
1667	H95COP	O- -47		628	246	7201	4	-4	4	8281	2
1668	H97COP	O- -48	YES	0	0	1 0000	1	0	0	1 0000	2
1669	H99COP	O- -49		48	4	9705	1	2	3	7127	2
1670	H101COP	O- -50		65	5	9849	3	1	5	9849	2
1671	H103COP	O- -51	YES	0	0	1 0000	1	0	0	1 0000	2
1672	H105COP	O- -52		55	4	9769	1	1	1	9722	2
1673	H107COP	O- -53		-23	4	5394	4	4	2	5449	2
1674	H89COP	O- -54	YES	0	0	1 0000	1	0	0	1 0000	2
1675	H86SFF(C)	O- -55		-13	3	9896	1	196	2	9997	2
1676	B80PMMRH	O- -56		13	7	9934	1	-5	2	8986	2
1677	B80PMMRD	O- -57		55	3	9845	1	58	2	9978	2
1678	B80PMMRV	O- -58	YES	-263	4	9995	1	46	2	9955	2
1679	B80P19@18(FC)	O- -59		-210	2	9998	1	-207	2	9998	2
1680	H96S19(D)	O- -60	YES	-4	4	9881	1	-2	3	9472	2
1681	B92P7MMS	O-A- 1		-175	8	9978	3	6	2	9491	2
1682	B92P7MMP	O-A- 2		-101	8	9924	4	55	2	9973	2
1683	B92S8MMS	O-A- 3		-343	19	9917	4	-84	5	9917	2
1684	B92S8MMP	O-A- 4	YES	0	0	1 0000	1	0	0	1 0000	2
1685	B86COMMP	O-A- 5		-157	3	9996	1	6	2	9313	2
1686	B86COMMS	O-A- 6		-172	4	9983	1	7	3	9105	2
1687	B86P7MMP	O-A- 7		-126	4	9978	1	1	4	2097	2
1688	B86P7MMS	O-A- 8		93	3	9968	1	-6	2	8245	2
1689	B80P1MMS	O-A- 9		-53	5	9847	4	19	3	9127	2
1690	B80P1MMP	O-A-10		11	5	8158	4	13	2	9726	2
1691	F82P11M	O-A-11		-82	5	9932	4	-52	5	9932	4
1692	H80P17(LF)	O-A-12		-75	6	9939	4	-89	4	9963	2
1693	B86P20(C)	O-A-13		12	4	9767	4	31	4	9767	4
1694	B86P11MMRH	O-A-14		17	6	9174	4	17	4	9440	2
1695	B86P11MMRD	O-A-15		31	4	9425	1	32	3	9900	2
1696	B86P11MMRV	O-A-16		-2	4	9367	1	22	2	9823	2
1697	B86P11MP(HSU)	O-A-17		26	13	8722	3	31	3	9890	2
1698	B86P11MP(HSL)	O-A-18		-20	3	9930	1	22	2	9647	2
1699	F86P11 C)	O-A-19		-28	2	9956	1	-9	2	8919	2
1700	B80P11+1P(BB)	O-A-20		91	2	9984	1	22	2	9919	2
1701	H80P15@14P(LF)	O-A-21		140	2	9994	1	-216	2	9998	2
1702	B86P9W(C)	O-A-22	YES	0	0	1 0000	1	0	0	1 0000	2
1703	B86P8 SP(BB)	O-A-23		-6	2	9882	1	-2	2	8984	2
1704	180P2P(C)	O-A-24		-48	3	9950	1	22	2	9934	2
1705	B86S7MMP(C)	O-A-25		-15	3	9846	1	-15	4	8300	2
1706	H85 9S19P(C)	O-A-26	YES	0	0	1 0000	1	0	0	1 0000	2
1707	B80S9 SMFRH	O-A-27		-22	7	9530	1	19	8	7392	2
1708	B80S9 SMFRD	O-A-28		-29	5	9403	3	14	5	9403	3
1709	B80S9 SMFRV	O-A-29		52	2	9909	1	-11	2	9006	2
1710	B92SMM7(BMSU)	O-A-30		72	3	9924	1	46	2	9956	2
1711	M80S9S(SL)	O-A-31	YES	0	0	1 0000	1	0	0	1 0000	2
1712	H85 9S6 SP(HSU)	O-A-32		-80	2	9988	1	145	2	9997	2
1713	H85 9S6 SP(HSL)	O-A-33		400	4	9997	4	-37	3	9856	2
1714	M86S3S(SU)	O-A-34	YES	0	0	1 0000	1	0	0	1 0000	2
1715	M86S3S(SL)	O-A-35		-98	14	9528	1	25	15	8626	2
1716	M86 1S3 SP(HS1)	O-A-36		-61	2	9983	1	110	2	9994	2
1717	M86 1S3 SP(HSO)	O-A-37		-187	5	9985	1	-85	5	9919	2
1718	B86S11 9MMRH	O-A-38		26	4	9562	4	-9	4	9562	4
1719	B86S11 9MMRD	O-A-39		108	14	9701	4	-31	9	7486	2
1720	B86S11 9MMRV	O-A-40		70	3	9920	1	-8	3	7850	2
1721	H86 1S17 SP(HSU)	O-A-41		702	3	1 0000	1	58	3	9955	2
1722	H86 1S17 SP(HSL)	O-A-42		-749	7	9998	1	72	5	9897	2
1723	H86 1S6 SP(HSU)	O-A-43		366	3	9998	1	-52	2	9953	2
1724	H86 1S6 SP(HSL)	O-A-44		-235	4	9994	1	116	3	9989	2
1725	H88 5S19P(CU)	O-A-45		-176	3	9994	1	126	3	9990	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY: VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL LOADING ONLY: LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1726	H88 5S19P(CL)	0-A-46		-95	9	9958	4	123	9	9887	2
1727	M86 1S6S(U)	0-A-47		-242	6	9994	1	52	2	9948	2
1728	M86 1S6S(L)	0-A-48		-299	7	9988	1	75	7	9774	2
1729	H86 1P8 5P(HSU)	0-A-49		322	3	9998	1	64	4	9932	2
1730	H56 1P8 5P(HSL)	0-A-50		-220	3	9997	1	-120	7	9990	3
1731	B92S7MZS(BM)	0-A-51		-148	15	9837	1	-36	5	9528	2
1732	B92S7MZP(BM)	0-A-52		8	5	9078	4	-11	3	7997	2
1733	B86S3MMP(BM)	0-A-53		-71	3	9978	1	5	2	6711	2
1734	B86S3MMS(BM)	0-A-54		99	5	986[illegible]	1	2	5	1647	2
1735	B86S3MZP(BM)	0-A-55		2	2	9905	1	4	2	8799	2
1736	B86S3MZS(BM)	0-A-56		-76	2	9992	1	2	2	8521	2
1737	B80S9MMS(BM)	0-A-57		-39	2	9985	1	-10	3	8268	2
1738	B80S9MMP(BM)	0-A-58	YES	154	11	9847	1	44	4	9750	2
1739	B80S9MZS(BM)	0-A-59		72	7	9778	3	-8	2	7979	2
1740	W89P2MZ(D)	0-A-60		59	4	9803	1	-1	9	2511	2
1741	H78S20P(CU)	0-B- 1		-222	3	9995	1	213	2	9999	2
1742	H79S20P(CL)	0-B- 2		-214	3	9995	1	218	2	9998	2
1743	B50S11MMP(C)	0-B- 3		-48	3	9973	1	5	2	9548	2
1744	M80S11P(C)	0-B- 4	YES	0	0	1 0000	1	0	0	1 0000	2
1745	H79 5S20P(FC)	0-B- 5		-153	3	9991	1	-62	4	9886	2
1746	H79 5S20P(AC)	0-B- 6		-80	2	9989	1	-51	1	9926	2
1747	H79 5S20P(ACL)	0-B- 7		-58	3	9955	1	-59	4	9897	2
1748	B64COMMP(C)	0-B- 8		-23	11	9145	1	[illegible]	3	9049	2
1749	B56S8 5MFRV(BB)	0-B- 9		12	15	2749	4	-10	5	6095	2
1750	B56S8 5MFRD(BB)	0-B-10		-43	9	9499	1	14	5	8671	2
1751	B56S8 5MFRH (BB)	0-B-11		-2	11	7981	4	-21	5	9383	2
1752	B56P8 5MFRV(BB)	0-B-12		12	19	8192	4	-51	5	9766	2
1753	B56P8 5MFRD(BB)	0-B-13		-49	11	9121	1	-58	5	9845	2
1754	B56P8 5MFRH(BB)	0-B-14		-23	11	7694	1	-30	5	5199	2
1755	M64P8S(SUA)	0-B-15		93	26	8957	3	-66	5	9837	2
1756	M64P8S(SLA)	0-B-16		-67	4	9952	1	-28	3	9582	2
1757	M64P8S(SUF)	0-B-17		-19	14	8685	3	-28	3	9731	2
1758	M64P8S(SLF)	0-B-18	YES	-149	13	9892	1	-12	3	7919	2
1759	B64P11FIP(CU)	0-B-19		43	10	8885	3	9	5	8423	2
1760	B64P11FIP(CL)	0-B-20		134	6	9924	1	-5	2	8990	2
1761	H61 2S20P(CM)	0-B-21		-446	5	9997	1	335	4	9997	2
1762	H61 2S20P(CL)	0-B-22	YES	0	0	1 0000	1	0	0	1 0000	2
1763	M60P9 5P(C)	0-B-23		-357	3	9998	1	-192	2	9997	2
1764	H58 6P20P(C)	0-B-24		-276	5	9997	4	-337	2	9999	2
1765	H61 3P20P(C)	0-B-25		-267	3	9998	1	-319	2	9999	2
1766	H58 6P20P(CU)	0-B-26	YES	0	0	1 0000	1	0	0	1 0000	2
1767	H58 6P20P(CL)	0-B-27		-280	6	9995	4	-312	2	9999	2
1768	M59 5P6P(C)	0-B-28		-33	4	9935	1	2	4	8636	2
1769	B80S9MZP(BM)	0-B-29		25	3	9636	1	-5	1	7822	2
1770	B64P8MMP(BM)	0-B-30		6	20	8771	3	-41	8	9243	2
1771	M74S5P(C)	0-B-31		-362	4	9998	1	103	6	9532	2
1772	M73S5P(C)	0-B-32		-386	4	9998	1	102	2	9992	2
1773	M67S5P(C)	0-B-33		-512	4	9999	1	123	1	9998	2
1774	M67P5P(UC)	0-B-34		-403	2	9999	4	-105	2	9999	4
1775	M67 2P5P(UC)	0-B-35		-432	4	9998	1	-109	2	9994	2
1776	M69P5P(LP)	0-B-36		58	4	9951	3	44	2	9963	2
1777	M60P6P(C)	0-B-37		-452	5	9998	1	-140	2	9996	2
1778	H94S20P(FC)	0-B-38		-7	4	9825	1	-22	3	9457	2
1779	M77P10 1P	0-B-39		-502	4	9999	1	180	2	9998	2
1780	H94S20P(AC)	0-B-40		42	3	9714	1	-21	3	9376	2
1781	H94S16 5P(CU)	0-B-41		3	2	9858	1	-6	2	8239	2
1782	H94S16 5P(CL)	0-B-42		-35	3	9942	1	-17	3	8719	2
1783	H91P19P(C)	0-B-43		-5	4	9851	1	21	2	9896	2
1784	M7958 5P	0-B-44		-211	3	9996	1	172	2	9997	2
1785	B84P911P	0-B-45		-83	3	9979	1	0	3	8537	2
1786	H91P19P(AC)	0-B-46		53	3	9875	1	35	2	9923	2
1787	H91P19P(FC)	0-B-47		4	6	9644	4	-31	2	9868	2
1788	H97 9P14P(LF)	0-B-48		32	4	9591	1	35	5	9635	2
1789	H101P20P(AC)	0-B-49		-88	4	9969	1	-19	3	9382	2
1790	H80P19P18(FC)	0-B-50		-242	2	9998	1	-209	2	9998	2
1791	H79 5P18P(CU)	0-B-51		-58	3	9984	1	-212	2	9998	2
1792	H79 5P18P(CL)	0-B-52		-72	2	9991	1	-216	2	9998	2
1793	M63 9P13S(C)	0-B-53		-380	6	9994	4	-75	4	9914	2
1794	H79 9P15P(C)	0-B-54		28	3	9734	1	-200	2	9996	2
1795	B64P12 9P(LP)	0-B-55		-110	6	9959	1	-99	12	9688	2
1796	B64P12 9P(SC)	0-B-56		72	6	9903	1	18	4	9317	2
1797	H65P22P(C)	0-B-57		68	7	9778	1	38	7	9032	2
1798	B64P 1MMP(C)	0-B-58	YES	-118	2	9990	4	1	2	9990	4
1799	B64S 1MMP(C)	0-B-59		-8	14	5423	1	-27	2	9863	2
1800	B108P1MMP(D)	0-B-60	YES	-1	3	9943	1	-4	3	8876	2

TABLE B.5 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 60 DEGREE LAG

				@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
1	B8COMMP	9- -1		59	(80, 40)	51		SAME	
2	B8P4MMP	9- -2		50	(60, 76)	50	54	(70, 69)	26
3	B8P7MMP	9- -3		123	(0, 0)	0	9	(40, 80)	-29
4	B8COMFP	9- -4		0	(0, 0)	0	72	(40, 80)	0
5	B8P2MFP	9- -5		58	(-50, 29)	41		SAME	
6	B8S4MFP	9- -6		204	(-20, -77)	4	50	(70, [illegible])	34
7	B8S7MMP	9- -7		18	(0, -69)	10	11	(40, -40)	6
8	B8S2MFP	9- -8		69	(-70, -69)	64		SAME	
9	B8COHHRH	9- -9	YES	0	(0, [illegible])	0	23	(-80, 40)	0
10	B8COHHRD	9- -10		289	(-80, -40)	302		SAME	
11	B8COHHRV	9- -11		34	(70, [illegible])	3	33	(80, 40)	28
12	B8P111RV	9- -12	YES	2	(20, 77)	0	0	(-80, -40)	0
13	B8P111RC	9- -13		160	(70, 11)	179		SAME	
14	B8P111RH	9- -14		33	(-70, -69)	23		SAME	
15	B8PSFFRV	9- -15		181	(60, 76)	193		SAME	
16	B8PSFFRD	9- -16		149	(70, 69)	164		SAME	
17	B8PSFFRH	9- -17	YES	169	(-70, -69)	172		SAME	
18	B8S111RH	9- -18	YES	74	(-80, -40)	73		SAME	
19	B8S111RD	9- -19	YES	0	(0, 0)	0		SAME	
20	B8S111RV	9- -20		29	(50, -30)	14	46	(70, 69)	22
21	B8SSFFRH	9- -21		103	(70, [illegible])	84	86	(-60, 16)	87
22	B8SSFFRD	9- -22		179	(0, -69)	94	122	(50, -30)	109
23	B8SSFFRV	9- -23		264	(-30, -79)	265	269	(-40, -80)	260
24	B8COMMS	9- -24		219	(-80, -40)	218		SAME	
25	B8P4MMS	9- -25	YES	0	(0, 0)	0		SAME	
26	B8P7MMS	9- -26		81	(-80, -40)	81		SAME	
27	B8COMFS	9- -27		7	(30, 79)	[illegible]	[illegible]	(10, 74)	3
28	B8P2MFS	9- -28		12	(20, 77)	9	10	(10, -64)	6
29	B8S4MMS	9- -29		201	(-80, -40)	201		SAME	
30	B8S7MMS	9- -30	YES	0	(0, 0)	0		SAME	
31	B8S2MFS	9- -31		10	(30, 79)	0	7	(-70, [illegible])	9
32	M9COS	9- -32		30	(-70, -69)	28	28	(-80, -40)	28
33	M9P11P	9- -33		31	(70, 11)	28	31	(80, 40)	23
34	M9S11P	9- -34		26	(80, 40)	36		SAME	
35	M11COS	9- -35	YES	0	(0, 0)	0		SAME	
36	M11S11P	9- -36		33	(50, 79)	25	27	(70, 69)	21
37	M13COS	9- -37		58	(-80, -40)	51		SAME	
38	M13P12P	9- -38	YES	0	(0, 0)	0		SAME	
39	M13S12P	9- -39		33	(-20, 57)	19		SAME	
40	M15COS	9- -40		80	(-80, -40)	73		SAME	
41	M15S13P	9- -41		68	(-80, -40)	57		SAME	
42	M17COS	9- -42		80	(-80, -40)	83		SAME	
43	M17P13P	9- -43		48	(-70, -69)	48		SAME	
44	M17S13P	9- -44		31	(-10, 64)	30	31	(-20, 57)	31
45	M19COS	5- -45		114	(-80, -40)	116		SAME	
46	M19S13P	9- -46		63	(0, 69)	60	62	(20, 77)	57
47	M23COS	9- -47		109	(-80, -40)	112		SAME	
48	M23S13 9P	9- -48		128	(-70, -77)	130		SAME	
49	M25P13P	9- -49		208	(-70, -69)	209		SAME	
50	M25S13P	9- -50		126	(-60, 16)	125		SAME	
51	M27COS	9- -51		119	(10, 74)	-9	96	(-80, -40)	113
52	M27S14P	9- -52		168	(-60, 16)	154	156	(-50, 29)	156
53	M29COS	9- -53	YES	0	(0, 0)	0		SAME	
54	M29P14P	9- -54	YES	0	(0, 0)	0		SAME	
55	M29S14P	9- -55		177	(-40, 40)	170	173	(-50, 29)	177
56	M31COS	9- -56		266	(-80, -40)	259		SAME	
57	M31S14P	9- -57		245	(-60, 16)	242		SAME	
58	H24 1S20P(C)	9- -58		159	(-70, -11)	148		SAME	
59	F9S4P(C)	9- -59		57	(0, 69)	56	56	(10, 74)	51
60	H36P18 S(D)	9- -60		8	(-30, -79)	0	1	(70, 11)	-4
61	B16COMMP	9-A-1		121	(80, 40)	133		SAME	
62	B16COMMS	9-A-2		203	(-60, -76)	167	219	(-80, -40)	155
63	B16P4MMP	9-A-3		134	(80, 40)	174		SAME	
64	B16P4MMS	9-A-4	YES	0	(0, 0)	0	6	(80, 40)	0
65	B16P8MMP	9-A-5		147	(80, 40)	173		SAME	
66	B16P8MMS	9-A-6		71	(-30, 49)	35	59	(40, 80)	6
67	B16COMFP	9-A-7		48	(50, 79)	41	63	(80, 40)	40
68	B16COMFS	9-A-8		59	(80, 40)	81		SAME	
69	B16P3MFP	9-A-9		126	(-20, 57)	40	41	(0, 69)	54
70	B16P3MFS	9-A-10		164	(50, -30)	129	222	(80, 40)	154
71	B16COF1P	9-A-11		64	(70, 69)	80	90	(80, 40)	56
72	B16COF1S	9-A-12	YES	0	(0, 0)	0	0	(70, 69)	0
73	B16P2F1P	9-A-13		102	(70, 69)	103	110	(80, 40)	90
74	B16P2F1S	9-A-14		39	(-20, -77)	1	16	(-80, -40)	10
75	B16S4MMP	9-A-15		85	(80, 40)	103		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT LAT)	MEASURED STRAIN
76	B16S4MMS	9-A-16		132	(-80,-40)	130		SAME	
77	B16S8MMP	9-A-17	YES	94	(50,-30)	91	107	(70,-1)	86
78	B16S8MMS	9-A-18	YES	47	(-30,79)	46	50	(-60,-76)	25
79	B16S3MFP	9-A-19	YES	0	(0,0)	0	4	(-80,-40)	0
80	B16S3MFS	9-A-20		129	(60,76)	111	171	(80,40)	117
81	B16S2FIP	9-A-21		92	(70,1)	111	123	(80,40)	88
82	B16S2FIS	9-A-22		102	(-80,-40)	108		SAME	
83	B16COHHRH	9-A-23		47	(0,-69)	23	40	(70,-69)	5
84	B16COHHRD	9-A-24		50	(-20,57)	23	50	(-80,-40)	[illegible]
85	B16COHHRV	9-A-25	YES	0	(0,0)	0	7	(80,40)	0
86	B16P311RV	9-A-26		117	(40,80)	69	111	(80,40)	85
87	B16P311RD	9-A-27		124	(70,69)	96	114	(80,40)	108
88	B16P311RH	9-A-28		166	(-70,-1)	152	163	(-80,-40)	156
89	B16P7 SFFRV	9-A-29		638	(80,40)	661		SAME	
90	B16P7 SFFRD	9-A-30	YES	0	(0,0)	0	4	(-80,-40)	0
91	B16P7 SFFRH	9-A-31		318	(-80,-40)	295		SAME	
92	B16S311RH	9-A-32		172	(-80,-40)	168		SAME	
93	B16S311RD	9-A-33		176	(80,40)	196		SAME	
94	B16S311RV	9-A-34		158	(70,1)	151	170	(80,40)	135
95	B16S7 SFFRH	9-A-35		316	(-80,-40)	11	14	(-60,-76)	231
96	B16S7 SFFRD	9-A-36		219	(60,-18)	249	307	(80,40)	213
97	B16S7 SFFRV	9-A-37		412	(80,40)	465		SAME	
98	F9CONA	9-A-38		50	(-80,-40)	28	29	(70,-1)	46
99	F13CONA	9-A-39		26	(-70,-1)	21	24	(-80,-40)	26
100	F17COP	9-A-40		172	(80,40)	175		SAME	
101	F21 3COP	9-A-41		129	(80,40)	139		SAME	
102	F25CONA	9-A-42		56	(0,0)	0	19	(-80,-40)	45
103	F29CONA	9-A-43		24	(-80,-40)	27		SAME	
104	I9COP	9-A-44	YES	0	(0,0)	0	3	(-80,-40)	0
105	I13COP	9-A-45		29	(80,40)	25	25	(70,1)	25
106	F17CONA	9-A-46		16	(-70,-69)	8	9	(-80,-40)	12
107	F21 3CONA	9-A-47		33	(-70,-69)	17	21	(-80,-40)	9
108	H9COP	9-A-48		65	(80,40)	57		SAME	
109	H11COP	9-A-49		76	(70,69)	47	53	(80,40)	59
110	H13COP	9-A-50	YES	0	(0,0)	0	5	(-80,-40)	0
111	H15COP	9-A-51		64	(0,0)	0	3	(10,74)	-11
112	H17COP	9-A-52		255	(50,-30)	5	13	(70,69)	18
113	H19COP	9-A-53	YES	0	(0,0)	0	8	(80,40)	0
114	H23COP	9-A-54		142	(80,40)	152		SAME	
115	H25COP	9-A-55		193	(80,40)	199		SAME	
116	H27COP	9-A-56		289	(80,40)	295		SAME	
117	H29COP	9-A-57		355	(80,40)	360		SAME	
118	H31COP	9-A-58		422	(80,40)	426		SAME	
119	H47COP	9-A-59		545	(80,40)	556		SAME	
120	H125P S(D)	9-A-60		12	(-10,-74)	1	3	(-70,-69)	6
121	B24COMMP	9-B-1		69	(80,40)	81		SAME	
122	B24COMMS	9-B-2		235	(-70,-69)	186	222	(-80,-40)	188
123	B24S4MMP	9-B-3		35	(70,1)	30		SAME	
124	B24P4MMS	9-B-4	YES	0	(0,0)	0		SAME	
125	B24S7MMP	9-B-5		46	(70,69)	35	37	(80,40)	38
126	B24P7MMS	9-B-6		77	(-10,64)	62	62	(-20,57)	75
127	B24COMFP	9-B-7		24	(70,69)	28	33	(80,40)	22
128	B24COMFS	9-B-8		19	(0,69)	5	8	(-60,16)	11
129	B24S4MFP	9-B-9		32	(0,-69)	13	13	(-30,-79)	22
130	B24P5MFS	9-B-10		114	(40,80)	95	137	(80,40)	91
131	B24COFIP	9-B-11		49	(70,69)	47	51	(80,40)	33
132	B24COFIS	9-B-12	YES	0	(0,0)	0	0	(80,40)	0
133	B24S3FIP	9-B-13		50	(70,1)	33		SAME	
134	B24P3FIS	9-B-14		36	(-40,40)	30	33	(-70,-1)	36
135	B24P4MMP	9-B-15		54	(80,40)	72		SAME	
136	B24S4MMS	9-B-16		142	(-80,-40)	157		SAME	
137	B24P7MMP	9-B-17	YES	67	(80,40)	83		SAME	
138	B24S7MMS	9-B-18	YES	70	(-30,-79)	54	66	(-70,-69)	34
139	B24P5MFP	9-B-19	YES	0	(0,0)	0		SAME	
140	B24S4MFS	9-B-20		67	(80,40)	40		SAME	
141	B24P3FIP	9-B-21		87	(80,40)	78		SAME	
142	B24S3FIS	9-B-22		34	(-70,-69)	41		SAME	
143	B24COHHRH	9-B-23		148	(-80,-40)	154		SAME	
144	B24COHHRD	9-B-24		77	(-70,-1)	62		SAME	
145	B24COHHRV	9-B-25	YES	0	(0,0)	0		SAME	
146	B24P411RH	9-B-26		254	(-70,-1)	247	248	(-80,-40)	250
147	B24P411RD	9-B-27		81	(-70,-1)	79		SAME	
148	B24P411RV	9-B-28		91	(70,69)	90	99	(80,40)	79
149	B24P9FFRV	9-B-29		327	(70,69)	383	383	(80,40)	315
150	B24P9FFRD	9-B-30	YES	0	(0,0)	0		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
151	B24P9FFRH	9-B-31		175	(-80,-40)	195		SAME	
152	B24S4IIRH	9-B-32		321	(-80,-40)	313		SAME	
153	B24S4IIRD	9-B-33		79	(-80,-40)	16	31	(-40,-80)	61
154	B24S4IIRV	9-B-34		56	(70, 1)	57	60	(80, 40)	38
155	L24S9FFRH	9-B-35		164	(-80,-40)	151		SAME	
156	B24S9FFRD	9-B-36		59	(70, 1)	77		SAME	
157	B24S9FFRV	9-B-37		180	(80, 40)	191		SAME	
158	I25COP	9-B-38		267	(80, 40)	271		SAME	
159	I29COP	9-B-39		225	(80, 40)	234		SAME	
160	B32CO IMZP(C)	9-B-40		199	(-80,-40)	193		SAME	
161	M31 9COP(C)	9-B-41		438	(-80,-40)	446		SAME	
162	M22 5S9 SP(C)	9-B-42		191	(-70,-1)	187		SAME	
163	M23P 3P(C)	9-B-43		159	(-80,-40)	163		SAME	
164	M22 SP 3P(C)	9-B-44		146	(-80,-40)	151		SAME	
165	M12 SP 4P(C)	9-B-45		41	(-80,-40)	40		SAME	
166	M12 SP 5P(C)	9-B-46		39	(-80,-40)	41		SAME	
167	M12 5P4P(C)	9-B-47		63	(-70,-69)	60	62	(-80,-40)	61
168	B24P11 6P(SC)	9-B-48		101	(80, 40)	122	123	(70, 69)	95
169	H23 958 SP(HSL)	9-B-49		198	(-60, 16)	192	203	(-70,-1)	198
170	H23 958 5P(HSU)	9-B-50		295	(80, 40)	306		SAME	
171	H23 9P8 SP(HSL)	9-B-51		266	(-70,-69)	259	268	(-80,-40)	248
172	H23 9P8 SP(HSU)	9-B-52		287	(80, 40)	300		SAME	
173	M6D59P(C)	9-B-53	YES	0	(0, 0)	0		SAME	
174	M48 1P8P(C)	9-B-54		339	(-70,-69)	327		SAME	
175	B48S5MMS(BM)	9-B-55		40	(50, 79)	51	60	(70, 69)	27
176	B48S5MZP(BM)	9-B-56		67	(-50, 29)	83	102	(-80,-40)	62
177	B48S5MZS(BM)	9-B-57		60	(0, 0)	0	74	(-80,-40)	18
178	B48S5 IMZP(BM)	9-B-58		30	(-20, 57)	21	37	(-70,-1)	18
179	M49 5S9P(IF)	9-B-59		275	(-70,-1)	-2	128	(40, 80)	-27
180	H28P17 5(D)	9-B-60		12	(-20,-77)	0	1	(70, 69)	-5
181	B40COTTP	8- -1	YES	1	(0,-69)	-1	1	(30, 79)	1
182	B40COTTS	8- -2	YES	1	(0, 0)	0	0	(70, 1)	-1
183	B40P4TTP	8- -3	YES	2	(20, 77)	0	0	(-60,-76)	0
184	B40P4TTS	8- -4	YES	0	(0, 0)	0	0	(70, 69)	0
185	B40P8TTP	8- -5	YES	0	(0, 0)	0	0	(80, 40)	0
186	B40P8TTS	8- -6	YES	0	(0, 0)	0	1	(80, 40)	0
187	B40CO2TP	8- -7	YES	2	(40,-40)	0	0	(60,-16)	0
188	B40CO2TS	8- -8	YES	1	(0, 0)	0		SAME	
189	B40P42TP	8- -9	YES	0	(0, 0)	0	0	(-80,-40)	0
190	B40P42TS	8- -10	YES	1	(0,-69)	0	0	(-60, 16)	1
191	B40P82TP	8- -11	YES	4	(0, 69)	0	0	(-20, 57)	4
192	B40P82TS	8- -12	YES	0	(0, 0)	0	1	(-70,-69)	0
193	B40COMZP	8- -12	YES	0	(0, 0)	0	0	(80, 40)	0
194	B40COMZS	8- -14	YES	2	(60,-16)	0	0	(-70,-1)	0
195	B40COMFP	8- -15	YES	5	(0, 69)	1		SAME	
196	B40COMFS	8- -16	YES	0	(0, 0)	0	1	(-80,-40)	0
197	B40P7MFP	8- -17	YES	0	(0, 0)	0	0	(80, 40)	0
198	B40P7MFS	8- -18	YES	0	(0, 0)	0	1	(-80,-40)	0
199	B40COFIP	8- -19	YES	0	(0, 0)	0		SAME	
200	B40COFIS	8- -20	YES	0	(0, 0)	0	0	(80, 40)	0
201	B40P6FIP	8- -21	YES	0	(0, 0)	0	0	(70, 69)	0
202	B40P6FIS	8- -22	YES	2	(10, 74)	0	0	(20, 77)	0
203	B40S4TTP	8- -23	YES	0	(0, 0)	0	0	(-80,-40)	0
204	B40S4TTS	8- -24	YES	0	(0, 0)	0		SAME	
205	B40S8TTP	8- -25	YES	0	(0, 0)	0		SAME	
206	B40S8TTS	8- -26	YES	2	(50, 79)	0	1	(-80,-40)	0
207	B40S42TP	8- -27	YES	0	(0, 0)	0		SAME	
208	B40S42TS	8- -28	YES	1	(0,-69)	0	0	(70, 69)	1
209	B40S82TP	8- -29	YES	0	(0, 0)	0	0	(20,-57)	0
210	B40S82TS	8- -30	YES	0	(0, 0)	0	0	(80, 40)	0
211	B40S4MFP	8- -31	YES	2	(50,-30)	0	0	(80, 40)	2
212	B40S4MFS	8- -32	YES	0	(0, 0)	0		SAME	
213	B40S6FIP	8- -33	YES	2	(10, 74)	0	0	(20, 77)	0
214	B40S6FIS	8- -34	YES	0	(0, 0)	0	1	(80, 40)	0
215	B40COHHRH	8- -35	YES	0	(0, 0)	0	0	(-80,-40)	0
216	B40COHHRD	8- -36	YES	0	(0, 0)	0	0	(80, 40)	0
217	B40COHHRV	8- -37	YES	0	(0, 0)	0	1	(30,-49)	0
218	B40P6IIRH	8- -38	YES	2	(-20, 57)	0	0	(80, 40)	0
219	B40P6IIRD	8- -39	YES	1	(30,-49)	0	0	(50, 79)	-1
220	B40P6IIRV	8- -40	YES	2	(0, 0)	0	1	(-80,-40)	0
221	B40P9FIRV	8- -41	YES	1	(0, 0)	0	1	(70, 69)	-1
222	B40P9FIRD	8- -42	YES	1	(0, 0)	0	0	(-80,-40)	-1
223	B40P9FIRH	8- -43	YES	2	(10,-64)	0	0	(80, 40)	0
224	B40P12FFRV	8- -44	YES	0	(0, 0)	0	0	(80, 40)	0
225	B40P12FFRD	8- -45	YES	0	(0, 0)	0	1	(80, 40)	0

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
226	B40P12FFRH	8- -46	YES	1	(0, 0)	0	0	(-80, -40)	1
227	B40S6IIRV	8- -47	YES	0	(0, -69)	0	0	(-80, -40)	0
228	B40S6IIRD	8- -48	YES	2	(0, 0)	0	0	(-70, -69)	0
229	B40S6IIRH	8- -49	YES	2	(60, -16)	0	0	(-80, -40)	2
230	B40S9FIRH	8- -50	YES	2	(60, -16)	0	0	(80, 40)	0
231	B40S9FIRD	8- -51	YES	2	(0, 0)	0	0	(70, -1)	0
232	B40S9FIRV	8- -52	YES	0	(0, [illegible])	0		SAME	
233	B40S12FFRH	8- -53	YES	0	(0, 0)	0	0	(80, 40)	0
234	B40S12FFRD	8- -54	YES	0	(0, [illegible])	0	0	(10, -74)	0
235	B40S12FFRV	8- -55	YES	0	(0, 0)	0		SAME	
236	B48COMMP	8- -56	YES	1	(30, -45)	0	1	(70, 69)	-1
237	B48S8 4MFRV	8- -57	YES	2	(50, -30)	0	0	(-80, -40)	0
238	B48S8 4MFRD	8- -58	YES	0	(0, 0)	0	0	(70, 1)	0
239	B48S8 4MFRH	8- -59	YES	0	(0, 0)	0	0	(40, -40)	0
240	W46P22T(D)	8- -60	YES	1	(0, 0)	0	0	(-80, -40)	1
241	B48COTTP	8-A- 1	YES	1	(10, -64)	0	1	(60, -76)	1
242	B48COTTS	8-A- 2	YES	1	(0, 0)	0	1	(70, 1)	1
243	B48P4TTP	8-A- 3	YES	2	(40, -40)	0	0	(70, 1)	0
244	B48P4TTS	8-A- 4	YES	0	(0, 0)	0	1	(80, -40)	0
245	B48P8TTP	8-A- 5	YES	2	(10, 74)	0	0	(20, 77)	0
246	B48P8TTS	8-A- 6	YES	1	(0, -69)	0	1	(-70, 1)	-1
247	B48CD2TP	8-A- 7	YES	0	(0, 0)	0	0	(-80, -40)	0
248	B48CD2TS	8-A- 8	YES	1	(40, -40)	0	0	(-80, -40)	1
249	B48P4ZTP	8-A- 9	YES	0	(0, 0)	0	0	(-80, -40)	0
250	B48P4ZTS	8-A-10	YES	1	(0, 0)	0	1	(-50, 29)	1
251	B48P8ZTP	8-A-11	YES	0	(0, 0)	0	0	(70, -69)	0
252	B48P8ZTS	8-A-12	YES	0	(0, 0)	0	0	(-80, -40)	0
253	B48COMZP	8-A-13	YES	0	(0, 0)	0	0	(70, 65)	0
254	B48COMZS	8-A-14	YES	2	(10, 74)	0	0	(-10, 64)	0
255	B48COMFP	8-A-15	YES	0	(0, 0)	0	0	(-80, -40)	0
256	B48COMFS	8-A-16	YES	0	(0, 0)	0	0	(-80, -40)	0
257	B48P6MFP	8-A-17	YES	0	(0, 0)	0	0	(80, 40)	0
258	B48P6MFS	8-A-18	YES	2	(0, 0)	0	0	(-80, -40)	2
259	B48COFIP	8-A-19	YES	0	(0, 0)	0		SAME	
260	B48COFIS	8-A-20	YES	0	(0, 0)	0	0	(70, 69)	-2
261	B48P6FIP	8-A-21	YES	0	(0, 0)	0	0	(80, 40)	0
262	B48P6FIS	8-A-22	YES	0	(0, 0)	0	0	(-70, -69)	0
263	B48S4TTP	8-A-23	YES	0	(0, 0)	0	0	(-80, -40)	0
264	B48S4TTS	8-A-24	YES	0	(0, 0)	0		SAME	
265	B48S8TTP	8-A-25	YES	0	(0, 0)	0		SAME	
266	B48S8TTS	8-A-26	YES	0	(0, 0)	0	0	(-80, -40)	0
267	B48S4ZTP	8-A-27	YES	0	(0, 0)	0		SAME	
268	B48S4ZTS	8-A-28	YES	0	(0, 0)	0	0	(70, 69)	0
269	B48S8ZTP	8-A-29	YES	0	(0, 0)	0		SAME	
270	B48S8ZTS	8-A-30	YES	0	(0, 0)	0	0	(-80, -40)	0
271	B48S6MFP	8-A-31	YES	1	(0, 0)	0	0	(70, -69)	1
272	B48S6MFS	8-A-32	YES	0	(0, 0)	0		SAME	
273	B48S6FIP	8-A-33	YES	0	(0, 0)	0	1	(-80, -40)	0
274	B48S6FIS	8-A-34	YES	1	(0, -69)	0	0	(70, 69)	1
275	B48COHHRH	8-A-35	YES	0	(0, 0)	0	1	(70, -69)	0
276	B48COHHRD	8-A-36	YES	0	(0, 0)	0	0	(-60, -76)	0
277	B48COHHRV	8-A-37	YES	0	(0, 0)	0	0	(70, 69)	0
278	B48P7IIRV	8-A-38	YES	2	(-20, 57)	0	0	(-40, 40)	0
279	B48P7IIRD	8-A-39	YES	2	(60, 76)	0	0	(70, 69)	0
280	B48P7IIRH	8-A-40	YES	0	(0, 0)	0	0	(20, 77)	0
281	B48P10FIRV	8-A-41	YES	1	(0, -69)	0	0	(70, 69)	-1
282	B48P10FIRD	8-A-42	YES	2	(0, -69)	0	0	(80, 40)	0
283	B48P10FIRH	8-A-43	YES	2	(50, -30)	0	0	(80, 40)	0
284	B48P12FFRV	8-A-44	YES	0	(0, 0)	0	0	(40, -40)	0
285	B48P12FFRD	8-A-45	YES	0	(0, 0)	0	0	(-60, -40)	0
286	B48P12FFRH	8-A-46	YES	0	(0, 0)	0	0	(-80, -40)	0
287	B48S7IIRH	8-A-47	YES	1	(0, -69)	0	0	(-80, -40)	-1
288	B48S7IIRD	8-A-48	YES	0	(0, 0)	0	0	(-60, -76)	0
289	B48S7IIRV	8-A-49	YES	2	(20, 77)	0	0	(80, 40)	0
290	B48S10FIRH	8-A-50	YES	0	(0, 0)	0	1	(-80, -40)	0
291	B48S10FIRD	8-A-51	YES	2	(0, -69)	0	0	(-80, -40)	0
292	B48S10FIRV	8-A-52	YES	0	(0, 0)	0		SAME	
293	B48S12IIRH	8-A-53	YES	0	(0, 0)	0	0	(-10, -74)	0
294	B48S12IIRD	8-A-54	YES	1	(0, 0)	0	1	(80, 40)	1
295	B48S12IIRV	8-A-55	YES	0	(0, 0)	0		SAME	
296	H48 1S20P(C)	8-A-56	YES	3	(50, -30)	-2	3	(-80, -40)	-1
297	B48S13MMS(C)	8-A-57	YES	1	(0, 0)	0	0	(-80, -40)	1
298	B86S9IIP(C)	8-A-58	YES	0	(0, -69)	0	0	(-80, -40)	0
299	B56P4MMS(C)	8-A-59	YES	4	(0, -69)	0	1	(70, 69)	-4
300	B40P1(DK)	8-A-60	YES	1	(10, -64)	0	0	(80, 40)	-1

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
301	M30 4P10W	8-B- 1	YES	8	(-20,-77)	0	1	(-80,-40)	0
302	M30 4P10 SP	8-B- 2	YES	1	(20,-57)	0	0	(80, 40)	-1
303	M30 4P11W	8-B- 3	YES	2	(10,-64)	0	0	(-50, 29)	0
304	M30 4P11 SP	8-B- 4	YES	2	(30,-49)	0	0	(-20,-77)	0
305	M30 4P12W	8-B- 5	YES	1	(10,-64)	0	1	(70, 69)	1
306	M30 4P13W	8-B- 6	YES	0	(0, 0)	0	0	(20, 77)	0
307	M31 2P10W	8-B- 7	YES	2	(30,-49)	0	0	(80, 40)	-2
308	M31 2P10 SPRL	8-B- 8	YES	5	(-50, 29)	0	0	(-80,-40)	-1
309	M31 2P10 SPRD	8-B- 9	YES	2	(70, 1)	0	0	(60, 76)	0
310	M31 2P10 SPRH	8-B-10	YES	1	(30,-49)	0	0	(70, 69)	1
311	M31 2P11W	8-B-11	YES	2	(0,-69)	0	0	(70, 69)	0
312	M31 2P11 SP	8-B-12	YES	2	(40, 80)	0	0	(10,-64)	0
313	M31 2P12W	8-B-13	YES	12	(80, 40)	0	0	(20, 77)	0
314	M31 2P13W	8-B-14	YES	2	(30,-49)	0	0	(80, 40)	0
315	M31 2P14W	8-B-15	YES	0	(0, 0)	0	0	(80, 40)	0
316	B40P8MMRH(BB)	8-B-16	YES	2	(0, 0)	0	1	(70, 69)	2
317	B32P10MMP	8-B-17	YES	8	(-20,-77)	0	0	(80, 40)	0
318	B40P8MMRD(BB)	8-B-18	YES	1	(20,-57)	0	1	(-70, -1)	1
319	B32P10 SMMP	8-B-19	YES	0	(0, 0)	0		SAME	
320	B40P8MMRV(BB)	8-B-20	YES	0	(0, 0)	0	0	(-80,-40)	0
321	M31 8P11 2PRH	8-B-21	YES	5	(30, 79)	0	0	(80, 40)	1
322	M31 8P11 2PRD	8-B-22	YES	0	(0, 0)	0	0	(20, 77)	0
323	M31 8P11 2PRL	8-B-23	YES	6	(-20,-77)	0	0	(-40, 40)	0
324	M31 8P11 SP	8-B-24	YES	0	(0, 0)	0		SAME	
325	M31 8P12W	8-B-25	YES	0	(0, 0)	0		SAME	
326	M31 8P13W	8-B-26	YES	5	(-50, 29)	1	1	(-20, 57)	-3
327	M31 8P14W	8-B-27	YES	0	(0, 0)	0		SAME	
328	M32 4P10W	8-B-28	YES	2	(0, 0)	0	0	(40,-40)	0
329	M32 4P10 SP	8-B-29	YES	0	(0, 0)	0	0	(80, 40)	0
330	M32 4P10 7P	8-B-30	YES	0	(0, 0)	0	0	(-80,-40)	0
331	M32 4P11 1P	8-B-31	YES	1	(10,-64)	0	0	(70, 69)	1
332	M32 4P11 3P	8-B-32	YES	0	(0, 0)	0		SAME	
333	M32 4P11 5PRH	8-B-33	YES	2	(30,-49)	0	0	(70, 69)	0
334	M32 4P11 5PRD	8-B-34	YES	0	(0, 0)	0	0	(80, 40)	-2
335	M32 4P11 5PRL	8-B-35	YES	0	(0, 0)	0	0	(70, 69)	0
336	M32 4P12W	8-B-36	YES	2	(70, 1)	0	0	(80, 40)	0
337	M32 4P13W	8-B-37	YES	2	(30, 79)	0	0	(40, 80)	0
338	M32 4P14W	8-B-38	YES	3	(-50, 29)	0	0	(-40,-80)	-1
339	M31 2S11W	8-B-39	YES	2	(60, 76)	0	0	(70, 69)	0
340	M31 2S12W	8-B-40	YES	0	(0, 0)	0	0	(70, 69)	0
341	M31 2S13W	8-B-41	YES	1	(10,-64)	0	0	(20,-57)	-1
342	M31 2S14W	8-B-42	YES	2	(60,-16)	0	0	(80, 40)	0
343	M31 8S11W	8-B-43	YES	3	(70, 1)	0	0	(80, 40)	-7
344	M31 8S11 2PRL	8-B-44	YES	8	(-50, 29)	0	0	(70, 69)	0
345	M31 8S11 2PRD	8-B-45	YES	0	(0, 0)	0	0	(80, 40)	0
346	M31 8S11 2PRH	8-B-46	YES	0	(0, 0)	0	0	(-80,-40)	0
347	M31 8S12W	8-B-47	YES	5	(-20,-77)	0	0	(-80,-40)	1
348	M31 8S13W	8-B-48	YES	2	(70, 1)	0	0	(70, 69)	0
349	M31 8S14W	8-B-49	YES	16	(-20,-77)	0	0	(-80,-40)	0
350	M32 6S10W	8-B-50	YES	17	(-50, 29)	0	0	(70, 69)	-1
351	M32 6S10 7P	8-B-51	YES	2	(80, 40)	0		SAME	
352	M32 6S11 3P	8-B-52	YES	0	(0, 0)	0		SAME	
353	M32 6S12W	8-B-53	YES	2	(0,-69)	0	0	(-80,-40)	0
354	M32 6S13W	8-B-54	YES	1	(30,-49)	0	1	(80, 40)	-1
355	M32 6S14W	8-B-55	YES	0	(0, 0)	0		SAME	
356	H24 1S17 SP(HSL)	8-B-56	YES	3	(70, 1)	0	1	(-50, 79)	1
357	H24 1S17 SP(HSU)	8-B-57	YES	3	(40, 80)	-1	1	(-70,-69)	-1
358	H24 2S20 SP(HSL)	8-B-58	YES	4	(-50, 29)	0	0	(-70, -1)	0
359	H24 2S20 SP(HSU)	8-B-59	YES	4	(40,-40)	0	0	(-60,-76)	0
360	W52P22T(D)	8-B-60	YES	1	(0, 0)	0	0	(30, 79)	1
361	M21P13 SP	7- - 1		390	(-80,-40)	-12	25	(40, 80)	-173
362	M21P12W	7- - 2		40	(-40,-80)	2	4	(-80,-40)	2
363	M21P6W	7- - 3		205	(-70,-69)	179	186	(-80,-40)	203
364	M21P2W	7- - 4		171	(-80,-40)	173		SAME	
365	M21C0W	7- - 5	YES	0	(0, 0)	0		SAME	
366	M21S2W	7- - 6		154	(-50,-79)	75	143	(-80,-40)	135
367	M21S4W	7- - 7		187	(-80,-40)	179		SAME	
368	M21S6W	7- - 8		133	(-70, -1)	133		SAME	
369	M21S8W	7- - 9		132	(-70, -1)	135		SAME	
370	M21S10W	7- -10		106	(-60, 16)	108	109	(-70, -1)	104
371	M21S11 SP	7- -11		100	(-70, -1)	100		SAME	
372	M21S12W	7- -12		73	(-40, 40)	71		SAME	
373	M21S12 SP	7- -13		64	(-60, 16)	56	59	(-40, 40)	60
374	M21S13W	7- -14		82	(-40, 40)	78	80	(-50, 29)	82
375	M21S13 SP	7- -15		94	(-20, 57)	67	70	(0, 69)	64

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
376	H16.2S15P(CU)	7- -16		96	(-70, -1)	93		SAME	
377	H21COW	7- -17		142	(80, 40)	139		SAME	
378	H21S2W	7- -18		152	(80, 40)	146		SAME	
379	H21P2W	7- -19		123	(80, 40)	124		SAME	
380	H21S5W	7- -20		127	(80, 40)	130		SAME	
381	H21S7W	7- -21		98	(70, 69)	97	97	(80, 40)	96
382	H21P7W	7- -22		84	(60, -16)	52	55	(70, 1)	69
383	H21S9W	7- -23		83	(70, 69)	82		SAME	
384	H21S11W	7- -24		93	(-70, -1)	91	92	(-60, 16)	91
385	H21P11W	7- -25		50	(60, 16)	53	54	(50, -30)	48
386	H21S13W	7- -26		91	(70, 69)	86		SAME	
387	H21S13.SP	7- -27		67	(40, 80)	67		SAME	
388	H21P13.SP	7- -28		75	(-50, -79)	74		SAME	
389	H21S14W	7- -29		424	(-40, 40)	18	64	(60, 76)	17
390	H21S16W	7- -30		64	(-30, 49)	63	63	(-40, 40)	58
391	H21P16W	7- -31		130	(-70, -69)	134		SAME	
392	H21S18W	7- -32		78	(50, 79)	78	85	(70, 69)	72
393	H21P18W	7- -33		165	(-70, -69)	167		SAME	
394	T33COW	7- -34		34	(-80, -40)	33		SAME	
395	T35COW	7- -35		30	(-50, -79)	-18	27	(80, 40)	-2
396	T37COW	7- -36		300	(10, 74)	-11	18	(60, -16)	-32
397	T39COW	7- -37		296	(0, 0)	0	20	(80, 40)	74
398	T41COW	7- -38		118	(30, 79)	1	26	(-70, -1)	-18
399	T43COW	7- -39		16	(-70, -1)	10	12	(-80, -40)	16
400	T45COW	7- -40		7	(-70, -69)	5	6	(-80, -40)	5
401	T47COW	7- -41		7	(-70, -1)	8	8	(-60, -40)	7
402	Z33COW	7- -42		25	(-80, -40)	27		SAME	
403	Z35COW	7- -43		38	(-80, -40)	38		SAME	
404	Z37COW	7- -44		94	(-80, -40)	96		SAME	
405	Z39COW	7- -45		143	(-80, -40)	142		SAME	
406	Z41COW	7- -46		0	(0, 0)	0	179	(-80, -40)	0
407	Z43COW	7- -47		224	(-80, -40)	227		SAME	
408	Z45COW	7- -48		283	(-80, -40)	283		SAME	
409	Z47COW	7- -49		415	(-80, -40)	344		SAME	
410	M33COW	7- -50		266	(-80, -40)	226		SAME	
411	M35COW	7- -51		304	(-80, -40)	319		SAME	
412	M37COW	7- -52	YES	0	(0, 0)	0		SAME	
413	M39COW	7- -53	YES	0	(0, 0)	0		SAME	
414	M41COW	7- -54	YES	0	(0, 0)	0		SAME	
415	M43COW	7- -55	YES	0	(0, 0)	0		SAME	
416	M45COW	7- -56	YES	0	(0, 0)	0		SAME	
417	M47COW	7- -57	YES	0	(0, 0)	0		SAME	
418	B40S8MMW(C)	7- -58	YES	0	(0, 0)	0		SAME	
419	B40S12MMP(C)	7- -59	YES	0	(0, 0)	0		SAME	
420	B16P12(DD)	7- -60	YES	0	(0, 0)	0		SAME	
421	I33.3COP	7-A- 1		190	(80, 40)	202		SAME	
422	I37COP	7-A- 2		308	(80, 40)	299		SAME	
423	I41COP	7-A- 3		323	(80, 40)	326		SAME	
424	I45.3COP	7-A- 4		296	(80, 40)	303		SAME	
425	F33.3COW	7-A- 5		28	(-60, 16)	16	21	(-80, -40)	26
426	F37COW	7-A- 6		22	(-70, -69)	12	14	(-80, -40)	16
427	F41COW	7-A- 7		29	(0, -69)	-2	9	(-80, -40)	25
428	F45.3COW	7-A- 8		13	(-80, -40)	8		SAME	
429	H33COP	7-A- 9		469	(80, 40)	475		SAME	
430	H35COP	7-A-10	YES	0	(0, 0)	0		SAME	
431	H37COP	7-A-11		447	(80, 40)	448		SAME	
432	H39COP	7-A-12		472	(80, 40)	465		SAME	
433	H41COP	7-A-13		515	(80, 40)	511		SAME	
434	H43COP	7-A-14	YES	0	(0, 0)	0		SAME	
435	H45COP	7-A-15	YES	0	(0, 0)	0		SAME	
436	H21COP	7-A-16	YES	0	(0, 0)	0		SAME	
437	M33S11.1P	7-A-17		232	(-70, -1)	220		SAME	
438	M33P11.1P	7-A-18		250	(-80, -40)	254	256	(-70, -69)	250
439	M35S11.1P	7-A-19		253	(-70, -1)	250		SAME	
440	M37S11.1P	7-A-20		249	(-70, -1)	242		SAME	
441	M37P11.1P	7-A-21		432	(-60, -76)	378	404	(-70, -69)	390
442	M39S11.1P	7-A-22		366	(-40, 40)	25	32	(-70, -1)	45
443	M41S11.1P	7-A-23		249	(-70, -1)	248		SAME	
444	M41P11.1P	7-A-24		431	(-70, -69)	428		SAME	
445	M43S11.1P	7-A-25		258	(-70, -1)	254		SAME	
446	M45S11.1P	7-A-26		263	(-70, -1)	259		SAME	
447	M45P11.1P	7-A-27		501	(-70, -69)	500		SAME	
448	M47S11.1P	7-A-28		165	(-40, 40)	163		SAME	
449	M33S14P	7-A-29		259	(-70, -1)	263	264	(-60, 16)	258
450	M33P14P	7-A-30	YES	0	(0, 0)	0		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
451	M35S14P	7-A-31		269	(-60, 16)	267		SAME	
452	M37S14P	7-A-32		267	(-50, 29)	244	249	(-60, 16)	265
453	M37P14P	7-A-33		436	(-70, -69)	170	199	(-40, -80)	361
454	M39S14P	7-A-34		316	(-40, 40)	191	208	(-60, 16)	117
455	M41S14P	7-A-35		491	(0, 0)	0	185	(-70, 1)	18
456	M41P14P	7-A-36		347	(-10, -74)	175	330	(-70, 69)	297
457	M43S14P	7-A-37		744	(-60, 16)	246		SAME	
458	M45S14P	7-A-38		260	(-40, 40)	263	270	(-50, 29)	254
459	M45P14P	7-A-39	YES	0	(0, 0)	0		SAME	
460	M47S14P	7-A-40		309	(-40, 40)	273	283	(-60, 16)	276
461	W32 1SMZO 1RV	7-A-41		175	(60, -16)	165	184	(80, 40)	145
462	W32 1SMZO 1RD	7-A-42		500	(-80, -40)	494		SAME	
463	W32 1SMZO 1RL	7-A-43		324	(-70, -1)	314		SAME	
464	W32 1SZTO 1P	7-A-44		121	(0, 69)	-25	31	(-50, 29)	-31
465	W35SMZO 5P	7-A-45		285	(-70, -1)	288		SAME	
466	W35SMZ2W	7-A-46		235	(-70, -1)	211		SAME	
467	W35SZM3 9P	7-A-47		261	(-80, -40)	261		SAME	
468	W35SZTO 1P	7-A-48		214	(-80, -40)	215		SAME	
469	W35SZT2W	7-A-49		90	(-80, -40)	67	70	(-70, -1)	68
470	W35STZ3 9P	7-A-50		106	(-80, -40)	92		SAME	
471	M49 5S9P(FO)	7-A-51		260	(-50, 29)	231	255	(-70, -1)	237
472	M49 5S9P(AO)	7-A-52		264	(-70, -1)	261		SAME	
473	B48S2MMW(C)	7-A-53		81	(-80, -40)	97		SAME	
474	B56S10 1MMP(C)	7-A-54		75	(-50, 29)	45	50	(-70, -1)	67
475	B40S3MMS(BM)	7-A-55		38	(-30, -79)	23	34	(-70, -69)	34
476	B40S3MMP(BM)	7-A-56		111	(-80, -40)	117		SAME	
477	B40S3MZS	7-A-57		75	(-80, -40)	80		SAME	
478	B40S3MZP	7-A-58		64	(-80, -40)	71		SAME	
479	B48S5MMP	7-A-59		67	(-80, -40)	81		SAME	
480	H44S19(D)	7-A-60		61	(-80, -40)	61		SAME	
481	T49P10W	7-B- 1		300	(-80, -40)	297		SAME	
482	T49P6W	7-B- 2		86	(-80, -40)	87		SAME	
483	T49C0W	7-B- 3		23	(-80, -40)	21		SAME	
484	T49S2W	7-B- 4		27	(-80, -40)	13	16	(-60, 16)	17
485	T49S4W	7-B- 5		18	(-50, 29)	13	14	(-30, 49)	14
486	T49S6W	7-B- 6		0	(0, 0)	0	53	(-80, -40)	0
487	T49S8W	7-B- 7		145	(-70, -1)	126		SAME	
488	T49S10W	7-B- 8		220	(-80, -40)	208	212	(-70, -1)	216
489	T49S10 5P	7-B- 9		292	(-80, -40)	288	288	(-70, -1)	288
490	T49S10 9P	7-B-10		331	(-80, -40)	337		SAME	
491	Z49P10W	7-B-11		505	(-80, -40)	506		SAME	
492	Z49P6W	7-B-12		338	(-80, -40)	342		SAME	
493	Z49C0W	7-B-13	YES	0	(0, 0)	0		SAME	
494	Z49S2W	7-B-14		331	(-80, -40)	321		SAME	
495	Z49S4W	7-B-15		354	(-80, -40)	352		SAME	
496	Z49S6W	7-B-16		388	(-80, -40)	400		SAME	
497	Z49S8W	7-B-17		219	(-80, -40)	212	213	(-70, -1)	217
498	Z49S10W	7-B-18		328	(-70, -1)	326		SAME	
499	Z49S10 5P	7-B-19		345	(-70, -1)	339		SAME	
500	Z49S10 9P	7-B-20		346	(-70, -1)	343		SAME	
501	W49SMZ2W	7-B-21		120	(-50, 29)	120		SAME	
502	W49SZM3 9P	7-B-22		389	(-70, -1)	367		SAME	
503	W49SMZO 1RL	7-B-23		265	(-70, -1)	263		SAME	
504	W49SMZO 1RD	7-B-24		298	(-70, -1)	294		SAME	
505	W49SMZO 1RV	7-B-25		210	(70, 1)	208		SAME	
506	W49SZT2W	7-B-26		322	(-70, -1)	323		SAME	
507	W49STZ3 9P	7-B-27		321	(-70, -1)	313		SAME	
508	W49SZTO 1RL	7-B-28		337	(-70, -1)	333		SAME	
509	W49SZTO 1RD	7-B-29		37	(70, 69)	32		SAME	
510	W49SZTO 1RV	7-B-30		126	(80, 40)	133		SAME	
511	M49P14W	7-B-31	YES	0	(0, 0)	0		SAME	
512	M49P13W	7-B-32		0	(0, 0)	0	13	(-70, -69)	0
513	M49P11 1P	7-B-33		414	(-70, -69)	420		SAME	
514	M49P10W	7-B-34		381	(-70, -69)	386		SAME	
515	M49P6W	7-B-35		361	(-70, -69)	352	357	(-80, -40)	345
516	M49P2W	7-B-36		367	(-80, -40)	366		SAME	
517	M49C0W	7-B-37		276	(-80, -40)	275		SAME	
518	M49S2W	7-B-38		366	(-80, -40)	377		SAME	
519	M49S4W	7-B-39		330	(-80, -40)	349		SAME	
520	M49S6W	7-B-40		268	(-70, -1)	266		SAME	
521	M49S8W	7-B-41		246	(-70, -1)	254		SAME	
522	M49S9 5P	7-B-42		260	(-70, -1)	256		SAME	
523	M49S10W	7-B-43		246	(-70, -1)	250		SAME	
524	M49S10 5P	7-B-44		267	(-70, -1)	263		SAME	
525	M49S10 9P	7-B-45		259	(-60, 16)	260		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
526	M49S12W	7-B-46		264	(-50, 29)	259	263	(-60, 16)	260
527	M49S12 SP	7-B-47		268	(-50, 29)	252	256	(-60, 16)	258
528	M49S13W	7-B-48		293	(-60, 16)	295		SAME	
529	M49S13 SP	7-B-49		319	(-60, 16)	0	0	(0, 0)	-15
530	M49S14W	7-B-50		297	(-50, 29)	279		SAME	
531	M49S11 1P	7-B-51		284	(-50, 29)	258	268	(-70, -1)	260
532	B4ACOMMS(C)	7-B-52		210	(-70, -1)	117	134	(-80, -40)	164
533	Z38S3 SP(C)	7-B-53		208	(-80, -40)	200		SAME	
534	Z33S3 SP(C)	7-B-54		139	(-70, -69)	135	147	(-80, -40)	147
535	Z33S3 SP(C)	7-B-55		147	(-80, -40)	144		SAME	
536	Z43P3 SP(CO)	7-B-56		274	(-80, 40)	273		SAME	
537	Z43P3 SP(CI)	7-B-57		252	(-80, 40)	251		SAME	
538	Z53P3 SP(CI)	7-B-58		351	(-80, -40)	345		SAME	
539	Z53P3 SP(CO)	7-B-59		403	(-80, -40)	377		SAME	
540	H52S18(D)	7-B-60		147	(-80, -40)	143		SAME	
541	H16 2S15P(CL)	6- -1	YES	0	(0, 0)	0		SAME	
542	H49P3W	6- -2		459	(80, 40)	467		SAME	
543	H49P7W	6- -3		345	(70, 1)	350		SAME	
544	H49P10W	6- -4		249	(70, 1)	256		SAME	
545	H49P12W	6- -5		198	(50, -30)	214		SAME	
546	H49P15 SP	6- -6		216	(-40, -80)	207		SAME	
547	H49P18W	6- -7	YES	1	(10, -64)	0	1	(-80, -40)	-1
548	H49S1W	6- -8		550	(80, 40)	562		SAME	
549	H49S3W	6- -9		499	(80, 40)	507		SAME	
550	H49S5W	6- -10		467	(80, 40)	477		SAME	
551	H49S7W	6- -11		481	(80, 40)	483		SAME	
552	H49S9W	6- -12		439	(70, 69)	444		SAME	
553	H49S10W	6- -13		387	(70, 69)	404		SAME	
554	H49S11W	6- -14		368	(70, 69)	376		SAME	
555	H49S12W	6- -15		341	(70, 69)	358		SAME	
556	H49S13W	6- -16		299	(70, 69)	307		SAME	
557	H49S15 SP	6- -17		204	(40, 80)	209		SAME	
558	H49S16W	6- -18		202	(70, 69)	105	172	(10, 74)	180
559	H49S18W	6- -19	YES	0	(0, 0)	0		SAME	
560	H49S19W	6- -20		273	(-50, 29)	272		SAME	
561	H45S11 SP	6- -21		332	(70, 69)	346		SAME	
562	H45S16 SP●	6- -22		185	(20, 77)	177	-79	(30, 79)	-79
563	T46S10 9P	6- -23		255	(-70, -1)	241		SAME	
564	T46S7W	6- -24		101	(-70, -1)	97		SAME	
565	T39S10 9P	6- -25		211	(-80, -40)	206		SAME	
566	T39S7W	6- -26	YES	0	(0, 0)	0		SAME	
567	T26S10 9P	6- -27		137	(-80, -40)	130		SAME	
568	T36S7W	6- -28		39	(-60, 16)	34		SAME	
569	M46S8W	6- -29		265	(-70, -1)	258		SAME	
570	M43S4W	6- -30		260	(-70, -1)	258		SAME	
571	M43S8W	6- -31		248	(-80, -40)	247		SAME	
572	M39S7W	6- -32		249	(-70, -1)	-1	78	(40, 80)	-62
573	M39S8W	6- -33		236	(-70, -1)	230		SAME	
574	M30S11W	6- -34		172	(-70, -1)	151	154	(-60, 16)	156
575	M30S8W	6- -35		228	(-60, 16)	198	209	(-70, -1)	200
576	M37S11W	6- -36		357	(70, 1)	125		SAME	
577	M27S8W	6- -37		187	(-80, -40)	179		SAME	
578	H55S13W	6- -38	YES	0	(0, 0)	0		SAME	
579	H55P16 SP	6- -39		63	(-70, -69)	59	59	(-80, -40)	61
580	T54P7W	6- -40		246	(30, 79)	254	254	(40, 80)	244
581	T54P10 9P	6- -41		162	(-70, -69)	151	161	(-80, -40)	131
582	T54P7W	6- -42		36	(-60, -76)	7	20	(-70, -1)	30
583	T54P10 9P	6- -43		117	(-70, -1)	109	111	(-80, -40)	107
584	M54S8 SP	6- -44		256	(-70, -1)	257		SAME	
585	H59COP	6- -45	YES	0	(0, 0)	0		SAME	
586	H57COP	6- -46		645	(80, 40)	656		SAME	
587	H57S13W	6- -47		405	(70, 69)	173	201	(40, 80)	333
588	H55COP	6- -48		677	(70, 69)	15	18	(40, 80)	289
589	H53COP	6- -49	YES	0	(0, 0)	0		SAME	
590	H53P13W	6- -50		226	(50, -30)	233		SAME	
591	H53S13W	6- -51		385	(70, 69)	390		SAME	
592	H51COP	6- -52	YES	0	(0, 0)	0		SAME	
593	M51S14P	6- -53		283	(-50, 29)	278		SAME	
594	I52 SCOP	6- -54		316	(80, 40)	324		SAME	
595	I57COP	6- -55		272	(80, 40)	0	1	(-40, -80)	-135
596	F49COW	6- -56		18	(-70, -69)	9	10	(-80, -40)	14
597	F52 SCOW	6- -57		13	(-20, 57)	3	3	(20, 77)	-4
598	F57COW	6- -58	YES	0	(0, 0)	0		SAME	
599	H54 8S21P(C)	6- -59		254	(-50, 29)	262	266	(-60, 16)	252
600	H20S13 8P(D)	6- -60		9	(-40, -80)	0	1	(80, 40)	-3

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
601	T51COW	6-A- 1	YES	0	(0, 0)	0		SAME	
602	T53COW	6-A- 2		18	(-70,-69)	4	6	(-70, -1)	14
603	T54COW	6-A- 3	YES	25	(-40, 40)	10	11	(-60, 16)	1
604	T55COW	6-A- 4		51	(10, 74)	10	11	(50, 79)	-15
605	Z60S10 9P	6-A- 5		1091	(-80,-40)	1110		SAME	
606	Z60S6W	6-A- 6		632	(-80,-40)	644		SAME	
607	Z60COW	6-A- 7	YES	1	(10,-64)	0	1	(-80,-40)	-1
608	Z59S10 9P	6-A- 8		884	(-70, -1)	878		SAME	
609	Z59COW	6-A- 9		526	(-80,-40	536		SAME	
610	Z58S10 9P	6-A-10		693	(-70, -1)	692		SAME	
611	Z58S6W	6-A-11		435	(-80,-40)	444		SAME	
612	Z58COW	6-A-12		475	(-80,-40)	513		SAME	
613	Z57COW	6-A-13		500	(-80,-40)	504		SAME	
614	Z57S10 9P	6-A-14		482	(-70, -1)	479		SAME	
615	Z56 2P10 9P	6-A-15		663	(-80,-40)	655		SAME	
616	Z56 2COW	6-A-16		562	(-80,-40)	574		SAME	
617	Z56 2P6W	6-A-17		503	(-80,-40)	514		SAME	
618	Z56 2S6W	6-A-18		482	(-80,-40)	487		SAME	
619	Z56 2S10 9P	6-A-19		555	(-70, -1)	577	563	(-80,-40)	520
620	Z55COW	6-A-20		467	(-80,-40)	473		SAME	
621	Z55S10 9P	6-A-21		533	(-70, -1)	535		SAME	
622	Z54COW	6-A-22		467	(-80,-40)	[illegible]		SAME	
623	Z55S6W	6-A-23		551	(-80,-40)	447		SAME	
624	Z54S10 9P	6-A-24		500	(-70, -1)	506		SAME	
525	Z53COW	6-A-25		433	(-80,-40)	443		SAME	
626	Z51COW	6-A-26	YES	0	(0, 0)	0		SAME	
627	M51COW	6-A-27	YES	0	(0, 0)	0		SAME	
628	M51S11 1P	6-A-28		276	(-60, 16)	272		SAME	
629	I49COP	6-A-29		322	(80, 40)	328		SAME	
630	M53COW	6-A-30	YES	0	(0, 0)	0		SAME	
631	M53S11 1P	6-A-31		252	(-60, 16)	249		SAME	
632	M53S14P	6-A-32		304	(-50, 29)	304	306	(-60, 16)	304
633	M53P11 1P	6-A-33		423	(-70,-69)	431		SAME	
634	M53P14	6-A-34		476	(-70,-69)	202	235	(-40,-80)	393
635	M55COW	6-A-35		294	(-80,-40)	330		SAME	
636	M55S11 1P	6-A-36		1554	(-10,-74)	141	244	(60,-16)	230
637	M55S14P	6-A-37		370	(-50, 29)	[illegible]	329	(-60, 16)	329
638	M57COW	6-A-38		0	(0, 0)	0	346	(-80,-40)	0
639	M57S11 1P	6-A-39		343	(-60, 16)	333		SAME	
640	M57S14P	6-A-40		234	(-50, 29)	230	232	(-60, 16)	232
641	M57P14	6-A-41	YES	0	(0, 0)	0		SAME	
642	M57P11 1P	6-A-42		586	(-70,-69)	572		SAME	
643	M59COW	6-A-43	YES	0	(0, 0)	0		SAME	
644	M59S14P	6-A-44		315	(-50, 29)	312	314	(-60, 16)	313
645	M59S11 1P	6-A-45		241	(-50, 29)	237	241	(-60, 16)	241
646	W55 9SMZO 1RV	6-A-46		144	(-20, 57)	129	131	(-40, 40)	136
647	W55 9SMZO 1RD	6-A-47		231	(50, 79)	262	265	(60, 76)	223
648	W55 9SMZO 1RL	6-A-48		287	(-60, 16)	209	211	(-70, -1)	223
649	W55 9STZO 1RV	6-A-49		138	(70, 1)	142		SAME	
650	W55 9STZO 1RD	6-A-50		252	(-80,-40)	208		SAME	
651	W55 9STZO 1RL	6-A-51		548	(-70, -1)	538		SAME	
652	W55 9SZM3 9RV	6-A-52		129	(70, 1)	141		SAME	
653	W55 9SZM3 9RD	6-A-53		211	(-70, -1)	225		SAME	
654	W55 9SZM3 9RL	6-A-54		555	(-70, -1)	551		SAME	
655	W56 1SZM3 9RL	6-A-55		73	(0, 69)	-1	4	(-80,-40)	-52
656	W56 1SZM3 9RD	6-A-56		31	(0, 69)	6	16	(70, 69)	2
657	W56 1SZM3 9RV	6-A-57		138	(70, 1)	-69	80	(-80,-40)	-17
658	H58 3P20P	6-A-58		216	(-10,-74)	199	210	(20,-57)	187
659	RESISTOR	6-A-59		13	(-70,-69)	2	2	(-80,-40)	5
660	W52S2MZ(D)	6-A-60		14	(-60,-76)	4		SAME	
661	B56COTTP	6-B- 1	YES	0	(0, 0)	0		SAME	
662	B56COTTS	6-B- 2		334	(-80,-40)	362		SAME	
663	B56P4TTP	6-B- 3		85	(0,-69)	50	73	(-60,-76)	36
664	B56P4TTS	6-B- 4		277	(-80,-40)	353		SAME	
665	B56P8TTP	6-B- 5		184	(10,-64)	77	238	(-70,-69)	131
666	B56P8TTS	6-B- 6		146	(-80,-40)	151		SAME	
667	B56COZTP	6-B- 7	YES	2	(10,-64)	0	0	(70, 1)	0
668	B56COZTS	6-B- 8		53	(-80,-40)	72		SAME	
669	B56P4ZTP	6-B- 9		136	(-30,-79)	151	212	(-70,-69)	128
670	B56P4ZTS	6-B-10		23	(-80,-40)	24	30	(-60,-76)	21
671	B56P8ZTP	6-B-11		167	(0,-69)	84	163	(-70,-69)	124
672	B56P8ZTS	6-B-12		80	(-40,-80)	82	94	(-70,-69)	72
673	B56COMZP	6-B-13		93	(-10,-74)	39	121	(-80,-40)	55
674	B56COMZS	6-B-14		64	(-10,-74)	29	70	(-70,-69)	16
675	B56COMFP	6-B-15		95	(-70,-69)	49		SAME	

TABLE B.5 (Continued)

				@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
676	B56COMFS	6-B-16		23	(-10,-74)	4	10	(-70,-69)	-13
677	B56P8MFP	6-B-17		40	(-10,-74)	21	37	(-70,-69)	30
678	B56P8MFS	6-B-18		123	(0,-69)	61	64	(-20,-77)	91
679	B56COFIP	6-B-19		120	(-10,-74)	55	80	(-60,-76)	3
680	B56COFIS	6-B-20		66	(-80,-40)	72		SAME	
681	B56P6FIP	6-B-21		46	(0,-69)	18	27	(60,-16)	8
682	B56P6FIS	6-B-22		21	(10,-64)	14	23	(70,1)	10
683	B56S477P	6-B-23		67	(0,0)	0	71	(-70,-1)	18
684	B56S4TTS	6-B-24		225	(-80,-40)	217		SAME	
685	B16P211W(C)	6-B-25		33	(0,-69)	-8	12	(-60,16)	-8
686	B56S8TTS	6-B-26	YES	0	(0,0)	0		SAME	
687	B56S4ZTP	6-B-27		55	(0,0)	0	106	(-80,-40)	39
688	B56S4ZTS	6-B-28		62	(10,74)	23	97	(-70,-1)	52
689	B56S8ZTP	6-B-29		35	(0,0)	0	54	(-50,29)	17
690	B56S8ZTS	6-B-30		32	(10,74)	20	29	(-50,29)	22
691	B56S8MFP	6-B-31	YES	0	(0,0)	0	44	(-80,-40)	0
692	B56S8MFS	6-B-32		58	(40,80)	52	65	(70,69)	12
693	B56S6FIP	6-B-33		30	(20,77)	9	27	(60,40)	-10
694	B56S6FIS	6-B-34		38	(70,69)	38	40	(80,40)	34
695	B56COMMRH	6-B-35		193	(-80,-40)	151		SAME	
696	B56COMMRD	6-B-36		114	(80,40)	104		SAME	
697	B56COMMRV	6-B-37		72	(80,40)	68		SAME	
698	B56P711RV	6-B-38		0	(0,0)	0	58	(80,40)	0
699	B56P711RD	6-B-39		45	(80,40)	61		SAME	
700	B56P711RH	6-B-40		81	(80,40)	73	73	(70,1)	73
701	B56P111FRV	6-B-41		28	(50,79)	16	17	(70,69)	6
702	B56P111FRD	6-B-42		307	(-80,-40)	274		SAME	
703	B56P111FRH	6-B-43		35	(-80,-40)	23		SAME	
704	B56P13FFRV	6-B-44		31	(40,80)	30	31	(60,76)	23
705	B56P13FFRD	6-B-45		106	(-70,-1)	104		SAME	
706	B56P13FFRH	6-B-46		61	(0,-69)	40	44	(-30,-79)	53
707	B56S711RH	6-B-47		37	(80,40)	51		SAME	
708	B56S711RD	6-B-48		75	(-50,-79)	44	60	(-80,-40)	40
709	B56S711RV	6-B-49		39	(30,79)	20	39	(80,40)	-1
710	B56S111FRH	6-B-50		160	(80,40)	181		SAME	
711	B56S111FRD	6-B-51		314	(80,40)	342		SAME	
712	B56S111FRV	6-B-52		60	(-50,-79)	51	61	(-70,-69)	52
713	B56S13FFRH	6-B-53		67	(0,69)	72	80	(30,79)	55
714	B56S13FFRD	6-B-54		47	(-30,-79)	21	21	(-20,-77)	43
715	B56S13FFRV	6-B-55		182	(-70,-69)	175	178	(-80,-40)	157
716	M36 1S4P(C)	6-B-56		34	(70,1)	34	39	(80,40)	30
717	M36S4P(C)	6-B-57		462	(-80,-40)	457		SAME	
718	M32 1S9P(C)	6-B-58		251	(-60,16)	244	248	(-70,-1)	237
719	M32 1P 5P(C)	6-B-59		338	(-80,-40)	295		SAME	
720	RESISTOR	6-B-60		81	(70,69)	89	92	(80,40)	67
721	APMM36C1PA	5- -1		296	(0,0)	0	146	(-50,29)	127
722	APMM36C2PA	5- -2		744	(-80,-40)	723		SAME	
723	APMM36C3PA	5- -3		885	(-70,-69)	839	876	(-80,-40)	843
724	APMM36C4PA	5- -4	YES	400	(-70,-69)	380		SAME	
725	APMM36C5PA	5- -5		384	(-80,-40)	398		SAME	
726	APMM36P3PA4	5- -6		402	(-70,-69)	404		SAME	
727	APMM36C1PF	5- -7		391	(-70,-69)	397		SAME	
728	APMM36C2PF	5- -8		456	(-70,-69)	457		SAME	
729	APMM36C3PF	5- -9		850	(-70,-69)	856		SAME	
730	APMM36C4PF	5- -10		785	(-70,-69)	773		SAME	
731	APMM36C5PF	5- -11		222	(-40,-80)	226		SAME	
732	APMM36P1PFO 5	5- -12		483	(-70,-69)	479		SAME	
733	APMM36P3PFO 5	5- -13		517	(-70,-69)	513		SAME	
734	APMM36P5PFO 5	5- -14		675	(-70,-69)	677		SAME	
735	APMM36RLPF	5- -15		776	(-70,-69)	777		SAME	
736	APMM36RDPF	5- -16		402	(-70,-69)	399		SAME	
737	APMM36RHPF	5- -17		243	(80,40)	264		SAME	
738	APMM36P3PF2	5- -18		466	(-70,-69)	462		SAME	
739	APMM36P3PF4	5- -19		444	(-70,-69)	450		SAME	
740	M35 3P11 1P	5- -20		407	(-70,-69)	410		SAME	
741	M35 3P11 5P	5- -21		414	(-70,-69)	410		SAME	
742	M35 3P12P	5- -22		472	(-30,-79)	230	322	(-70,-69)	364
743	M38 6P11 7P	5- -23		288	(-70,-69)	279		SAME	
744	APMZ33C315	5- 24		32	(-70,-69)	27		SAME	
745	APMZ33C308	5- -25		216	(80,40)	216		SAME	
746	APMZ33C300(R)	5- -26		8	(0,0)	0	2	(20,-57)	2
747	APMZ33C293	5- -27		600	(-80,-40)	613		SAME	
748	APMZ33RVMM	5- -28		24	(20,77)	19	20	(30,79)	22
749	APMZ33RDMM	5- -29	YES	0	(0,0)	0	0	(-80,-40)	0
750	APMZ33RLMM	5- -30		247	(-70,-69)	231		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
751	APMZ33RLMA	5- -31	YES	0	(0, 0)	0	0	(80, 40)	0
752	APMZ33RDMA	5- -32		584	(-80,-40)	592		SAME	
753	APMZ33RVMA	5- -33		39	(-30, 49)	31	32	(-50, 29)	33
754	APZZ38C2PA	5- -34		1339	(-80,-40)	1351		SAME	
755	APZZ38C3PA	5- -35	YES	0	(0, 0)	0		SAME	
756	APZZ38C4PA	5- -36	YES	0	(0, 0)	0		SAME	
757	APZZ38P3PA 5	5- -37		552	(-80,-40)	553		SAME	
758	APZZ38P3PA2	5- -38		426	(-80,-40)	427		SAME	
759	APZZ38P3PA4	5- -39		370	(-80,-40)	369		SAME	
760	APZZ38RHPA	5- -40		59	(40, 80)	60	61	(50, 79)	53
761	APZZ38RDPA	5- -41	YES	0	(0, 0)	0		SAME	
762	APZZ38RLPA	5- -42		976	(-80,-40)	972		SAME	
763	APMZ39C315	5- -43		515	(-80,-40)	535		SAME	
764	APMZ39C308	5- -44		503	(-80,-40)	516		SAME	
765	APMZ39C300	5- -45		487	(-80,-40)	503		SAME	
766	APMZ39C293	5- -46		599	(-80,-40)	597		SAME	
767	APMZ42C316	5- -47		520	(-80,-40)	538		SAME	
768	APMZ42C308	5- -48		510	(-80,-40)	539		SAME	
769	APMZ42C300(R)	5- -49		71	(20,-57)	22	22	(30,-49)	48
770	APMZ42C293	5- -50		553	(-80,-40)	548		SAME	
771	B16P3MMRH	5- -51		80	(50, 79)	75	88	(70, 69)	70
772	B16P3MMRD	5- -52		88	(70, 69)	92	100	(80, 40)	76
773	B16P3MMRV	5- -53		297	(0,-69)	1	36	(80 40)	-4
774	H23P17MFP(U)	5- -54		273	(-50,-79)	187	202	(-70,-69)	251
775	H23 9P16MFP(HSU)	5- -55		367	(80, 40)	359		SAME	
776	H23 9P16MFP(HSL)	5- -56		453	(-80,-40)	461		SAME	
777	B24P10 SMMRH	5- -57		14	(70, 69)	9	14	(20 77)	12
778	B24P10 SMMRD	5- -58		110	(80, 40)	122		SAME	
779	B24P10 SMMRV	5- -59		82	(70, 1)	87	106	(80, 40)	82
780	W36P2MZ(D)	5- -60		8	(-30, 49)	1	3	(-80 -40)	6
781	APMM44C1PA	5-A- 1	YES	0	(0, 0)	0		SAME	
782	APMM44C2PA	5-A- 2		932	(80,-40)	940		SAME	
783	APMM44C3PA	5-A- 3		981	(-80,-40)	982		SAME	
784	APMM44C4PA	5-A- 4	YES	410	(-50, 29)	379	392	(-70, -1)	380
785	APMM44C5PA	5-A- 5		463	(-70,-69)	467		SAME	
786	APMM44P3PA4	5-A- 6		480	(-70,-69)	481		SAME	
787	APMM44C1PF	5-A- 7		464	(-70,-69)	472		SAME	
788	APMM44C2PF	5-A- 8		518	(-70,-69)	511		SAME	
789	APMM44C3PF	5-A- 9		902	(-70,-69)	902		SAME	
790	APMM44C4PF	5-A-10		859	(-70,-69)	851		SAME	
791	APMM44C5PF	5-A-11		199	(-50,-79)	202	205	(-40,-80)	199
792	APMM44P1PFO 5	5-A-12		522	(-70,-69)	513		SAME	
793	APMM44P3PFO.5	5-A-13		554	(-70,-69)	553		SAME	
794	APMM44P5PFO 5	5-A-14		724	(-70,-69)	728		SAME	
795	APMM44RLPF	5-A-15		832	(-70,-69)	835		SAME	
796	APMM44RDPF	5-A-16		375	(-70,-69)	373		SAME	
797	APMM44RHPF	5-A-17		284	(80, 40)	3	5	(40, 80)	140
798	APMM44P3PF2	5-A-18		511	(-70,-69)	506		SAME	
799	APMM44P3PF4	5-A-19		494	(-70,-69)	494		SAME	
800	M43 3P11 1P	5-A-20		475	(-70,-69)	474		SAME	
801	M43.3P11.5P	5-A-21		450	(-70,-69)	457		SAME	
802	M43.3P12.0P	5-A-22		457	(-70,-69)	462		SAME	
803	M41 4P11.7P	5-A-23		512	(-70,-69)	512		SAME	
804	APMZ46C292	5-A-24		606	(-80,-40)	608		SAME	
805	APMZ46C285	5-A-25		622	(-80,-40)	44	87	(-40,-80)	427
806	APMZ46C277	5-A-26		502	(-80,-40)	496		SAME	
807	APMZ46C270	5-A-27		468	(-70,-69)	459		SAME	
808	APZZ46C3PA	5-A-28		1258	(-80,-40)	1267		SAME	
809	APZZ46C3PF	5-A-29	YES	0	(0, 0)	0	0	(-80,-40)	0
810	APZZ52C3SF	5-A-30		477	(-70, -1)	486		SAME	
811	ASZZ52C3SA	5-A-31	YES	2	(-40, 40)	0	0	(-70, -1)	0
812	APMZ62C101	5-A-32		462	(-70,-69)	463		SAME	
813	APMZ62C094	5-A-33		427	(-80,-40)	428		SAME	
814	APMZ62C086(R)	5-A-34		98	(60,-16)	15	19	(80, 40)	98
815	APMZ62C078	5-A-35	YES	0	(0, 0)	0		SAME	
816	APMZ62RLZA	5-A-36	YES	0	(0, 0)	0		SAME	
817	APMZ62RDZA	5-A-37		148	(0, 69)	-33	50	(-60,-76)	-20
818	APMZ62RHZA	5-A-38		110	(0, 69)	-28	41	(-60,-76)	-17
819	ASMM66C1SF	5-A-39		561	(-80,-40)	556		SAME	
820	ASMM66C2SF	5-A-40		682	(-80,-40)	688		SAME	
821	ASMM66C3SF	5-A-41		667	(-80,-40)	687		SAME	
822	ASMM66C4SF	5-A-42		447	(-80,-40)	413	417	(-70, -1)	427
823	ASMM66C5SF	5-A-43		388	(-70, -1)	396		SAME	
824	M59 5P 5P(AC)	5-A-44		376	(-80,-40)	381		SAME	
825	M59 5P 5P(FCO)	5-A-45		216	(-80,-40)	218		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
826	M59 9P SP(FC))	5-A-46		261	(-80, -40)	261		SAME	
827	M48SSW(BMSU)	5-A-47	YES	111	(80, 40)	63	86	(60, 76)	106
828	B56P8MMS(BM)	5-A-48		41	(-10, 64)	27	47	(-70, -1)	39
829	M48SSW(BMSL)	5-A-49	YES	0	(0, 0)	0		SAME	
830	B56P8M2S(BM)	5-A-50		152	(0, -69)	80	135	(-60, -76)	94
831	B40S9MMP(C)	5-A-51		487	(80, 40)	486		SAME	
832	B64P8MMS(BM)	5-A-52		21	(-10, -74)	-9	43	(80, 40)	3
833	H23 9S19S	5-A-53		64	(70, [illegible])	87	88	(80, 40)	56
834	B24S9 SMMRV(C)	5-A-54		60	(-80, -40)	79	80	(-70, -69)	56
835	B24S9 SMMRD(C)	5-A-55		110	(-80, -40)	82		SAME	
836	B24S9 SMMRH(C)	5-A-56		40	(-30, [illegible])	24	24	(-10, -74)	38
837	H23 9S16P(HSU)	5-A-57		321	(80, 40)	313		SAME	
838	H23 9S16P(HSL)	5-A-58		475	(-80, -40)	478		SAME	
839	H23P17MFP(L)	5-A-59		168	(-70, -69)	160		SAME	
840	W44P2M2(C)	5-A-60		22	(-60, -76)	-3	3	(20, 77)	2
841	M23 9S4 SP(HSC)	5-B- 1		160	(-70, -69)	162		SAME	
842	M23 9S4 SP(HSI)	5-B- 2		134	(60, 76)	105	108	(50, 79)	116
843	H24 1P8 SP(HSL)	5-B- 3		339	(80, 40)	258		SAME	
844	H24 1P8 SP(HSU)	5-B- 4	YES	448	(-80, -40)	477		SAME	
845	H24 1P13 9P(C)	5-B- 5		47	(30, 79)	35	39	(60, 76)	39
846	H29 3P17 8RH	5-B- 6		54	(30, 79)	43	53	(70, 69)	48
847	H29 3P17 8RD	5-B- 7		734	(-80, -40)	745		SAME	
848	H29 3P17 8RL	5-B- 8		248	(-70, -69)	238		SAME	
849	H31 9P14S(C)	5-B- 9		133	(-50, -79)	130	130	(-60, -76)	131
850	B32P8FIRH(C)	5-B-10		60	(70, 69)	54		SAME	
851	B32P8FIRD(C)	5-B-11		55	(-80, -40)	54		SAME	
852	B32P8FIRV(C)	5-B-12		128	(-80, -40)	121		SAME	
853	M31 8P11W	5-B-13		223	(-80, -40)	227		SAME	
854	M31 8P10 SP	5-B-14		309	(-70, -69)	307		SAME	
855	H37P20P	5-B-15		336	(-70, -69)	330		SAME	
856	H37S20P(CU)	5-B-16		181	(-40, 40)	176		SAME	
857	H37S20P(CL)	5-B-17		170	(-40, 40)	165	165	(-30, 49)	163
858	H37S19P(C)	5-B-18		167	(0, 69)	159	170	(-30, 49)	161
859	H37 4S20P(C)	5-B-19		212	(-40, 40)	188		SAME	
860	B40S8 SMFRV(BB)	5-B-20		47	(20, 77)	29	45	(70, 69)	16
861	B40S8 SMFRD(BB)	5-B-21		118	(-20, 57)	72	88	(-60, 16)	100
862	B40S8 SMFRH(BB)	5-B-22		141	(-70, -1)	129		SAME	
863	H44S20P(LP)	5-B-23		208	(-50, 29)	169	192	(10, 64)	172
864	H45 4S21P(C)	5-B-24		294	(-50, 29)	283		SAME	
865	H45 4S21P(C)	5-B-25		290	(-40, 40)	276	282	(-50, 29)	290
866	H41P20P(C)	5-B-26		71	(20, 77)	64	69	(50, 79)	65
867	H47 9P9P(C)	5-B-27		316	(70, -1)	330		SAME	
868	B48P8 2MMRV(BB)	5-B-28		84	(-80, -40)	62		SAME	
869	B48P8 2MMRD(BB)	5-B-29	YES	0	(0, 0)	0	0	(-80, -40)	0
870	B48P8 2MMRH(BB)	5-B-30		44	(0, -69)	31	39	(50, -30)	20
871	H42 6P20P(C)	5-B-31	YES	2	(0, -69)	0	0	(50, 79)	0
872	B48P12MMP(CI)	5-B-32		46	(80, 40)	45		SAME	
873	B48P12MMP(CO)	5-B-33		90	(50, -30)	42	88	(80, 40)	19
874	B48CO1P(C)	5-B-34		42	(0, 69)	-2	53	(80, 40)	22
875	I55 9P2P(C)	5-B-35	YES	0	(0, 0)	0		SAME	
876	H48 5P10P(CO)	5-B-36	YES	0	(0, 0)	0		SAME	
877	H51P14P(CU)	5-B-37		211	(-10, -74)	196	199	(0, -69)	195
878	H51P14P(CL)	5-B-38		253	(60, -16)	258		SAME	
879	H49P19P(C)	5-B-39		373	(-60, -76)	365		SAME	
880	H51P18P(C)	5-B-40		327	(-60, -76)	321		SAME	
881	M56P8W(BMSUO)	5-B-41		179	(-50, 29)	65	157	(-70, -69)	90
882	M56P8W(BMSLO)	5-B-42	YES	161	(-70, -69)	116		SAME	
883	M56P8W(BMSUO)	5-B-43		139	(-70, -69)	157		SAME	
884	M56P8W(BMSLO)	5-B-44	YES	0	(0, 0)	0		SAME	
885	RESISTOR	5-B-45		23	(0, 69)	3		SAME	
886	M40S3W(BMSU)	5-B-46		210	(-70, -69)	238	254	(-80, -40)	192
887	B56P8MMP(BM)	5-B-47		162	(0, -69)	92	150	(-60, -76)	93
888	M48SSW(BMSU)	5-B-48	YES	0	(0, 0)	0		SAME	
889	B56P8M2P(BM)	5-B-49		79	(0, -69)	36	61	(-60, -76)	36
890	M31 8P10W	5-B-50		314	(-70, -69)	314		SAME	
891	H16S12P(CU)	5-B-51		47	(-60, 16)	45	47	(-40, 40)	45
892	H16S12P(CM)	5-B-52		53	(-70, -1)	41	47	(-40, 40)	49
893	H16S12P(CL)	5-B-53		78	(-70, -1)	79		SAME	
894	H14S12P(C)	5-B-54		20	(-10, -74)	9	9	(0, -69)	4
895	H10 6S8S(C)	5-B-55		50	(-50, 29)	44	48	(-70, -1)	48
896	H12P14P(C)	5-B-56		42	(-80, -40)	34	36	(-70, -69)	40
897	H12P14P(C)	5-B-57		27	(-60, -76)	16	16	(-50, -79)	25
898	B16P8P(C)	5-B-58		92	(80, 40)	109		SAME	
899	H23S20P(C)	5-B-59		118	(-60, 16)	110		SAME	
900	RESISTOR	5-B-60		9	(0, 69)	1	2	(70, 69)	7

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
901	B64C0ZZP	4- - 1		66	(-50, 29)	41	73	(-80,-40)	41
902	B64C0ZZS	4- - 2		57	(-80,-40)	63		SAME	
903	B64P4ZZP	4- - 3		53	(-20,-77)	29	30	(-40,-80)	49
904	B64P4ZZS	4- - 4		159	(-80,-40)	196		SAME	
905	B64P8ZZP	4- - 5		98	(-70,-69)	107		SAME	
906	B64P8ZZS	4- - 6		97	(-40,-80)	73	100	(-70,-69)	85
907	B64C0MZP	4- - 7		78	(-60,-76)	88	104	(-80,-40)	70
908	B64C0MZS	4- - 8		33	(-40, 40)	20	30	(-80,-40)	27
909	B64P4MZP	4- - 9		76	(-60,-79)	88	97	(-80,-40)	68
910	B64P4MZS	4- -10		112	(-70,-69)	129		SAME	
911	B64P8MZP	4- -11		55	(-10,-74)	24	28	(-50,-79)	26
912	B64P8MZS	4- -12		139	(-70,-69)	140		SAME	
913	B64C0MFP	4- -13		36	(-30,-79)	13	24	(-80,-40)	15
914	B64C0MFS	4- -14		152	(-80,-40)	53		SAME	
915	B64P2MFP	4- -15		73	(-70,-69)	36	37	(-80,-40)	23
916	B64P2MFS	4- -16	YES	0	(0, 0)	0	0	(-50,-79)	0
917	B64C0FIP	4- -17		50	(-80,-40)	56		SAME	
918	B64C0FIS	4- -18		57	(-80,-40)	48		SAME	
919	B64P6FIP	4- -19		30	(40, 80)	3	26	(-70, -1)	3
920	B64P6FIS	4- -20		79	(0,-69)	29	30	(-20,-77)	21
921	B64S4ZZP	4- -21		55	(-70, -1)	68	77	(-80,-40)	49
922	B64S4ZZS	4- -22		118	(-80,-40)	81		SAME	
923	B64S8ZZP	4- -23		88	(-60, 16)	82	87	(-70, -1)	70
924	B64S8ZZS	4- -24		37	(-10,-74)	-8	25	(-70, -1)	19
925	B64S4MZP	4- -25		80	(-80,-40)	87		SAME	
926	B64S4MZS	4- -26		118	(-80,-40)	154		SAME	
927	B64S8MZP	4- -27		66	(-80,-40)	83		SAME	
928	B64S8MZS	4- -28		101	(-70, -1)	104	104	(-80,-40)	95
929	B64S4MFP	4- -29		72	(-70, -1)	92	102	(-80,-40)	72
930	B64S4MFS	4- -30		51	(-50, 29)	56	85	(-80,-40)	43
931	B64S6FIP	4- -31		46	(-40, 40)	39	67	(-80,-40)	30
932	B64S6FIS	4- -32		54	(-70, -1)	72	73	(-80,-40)	48
933	B64C0HHRH	4- -33		19	(-20,-77)	0	12	(70, 1)	3
934	B64C0HHRD	4- -34		21	(-40, 40)	4	5	(10, 74)	4
935	B64C0HHRV	4- -35		16	(0, 0)	0	12	(70, 69)	10
936	B64P7IIRV	4- -36		40	(30,-49)	35	51	(70, 1)	30
937	B64P7IIRD	4- -37	YES	6	(70, 1)	5	6	(80, 40)	6
938	B64P7IIRH	4- -38		80	(70, 1)	98	123	(80, 40)	76
939	B64P11FIRV	4- -39		326	(-80,-40)	329		SAME	
940	B64P11FIRD	4- -40		42	(70, 69)	24	46	(70, 1)	30
941	B64P11FIRH	4- -41		211	(-10, 64)	-12	152	(-80,-40)	-22
942	B64P13FFRV	4- -42		64	(40, 80)	70	71	(30, 79)	64
943	B64P13FFRD	4 -43		142	(-70, -1)	167		SAME	
944	B64P13FFRH	4- -44		46	(60,-16)	12	14	(80, 40)	30
945	B64S7IIRH	4- -45		86	(80, 40)	50		SAME	
946	B64S7IIRD	4- -46		85	(40, 80)	30	48	(80, 40)	34
947	B64S7IIRV	4- -47		36	(-30,-79)	12	12	(-40,-80)	34
948	B64S11FIRH	4- -48		80	(80, 40)	96	123	(60, 76)	66
949	B64S11FIRD	4- -49		452	(-80,-40)	360		SAME	
950	B64S11FIRV	4- -50		86	(-60,-76)	67		SAME	
951	B64S13IIRH	4- -51	YES	0	(0, 0)	0		SAME	
952	B64S13IIRD	4- -52		181	(-80,-40)	184		SAME	
953	B64S13IIRV	4- -53		40	(-50,-79)	18	23	(-80,-40)	22
954	H61 2S20P(CU)	4- -54		325	(-50, 29)	324	326	(-60, 16)	321
955	M59S8P(C)	4- -55		296	(-70, -1)	292		SAME	
956	APMZ48C112	4- -56		386	(-80,-40)	384		SAME	
957	APMZ46C105	4- -57		371	(-70,-69)	360	371	(-80,-40)	369
958	APMZ48C97	4- -58	YES	432	(-70,-69)	438	446	(-80,-40)	428
959	APMZ46C90	4- -59		239	(-70,-69)	205		SAME	
960	H60P19(D)	4- -60		14	(-20,-77)	3	10	(-80,-40)	8
961	M61P14P(G)	4-A- 1	YES	0	(0, 0)	0		SAME	
962	M61P11 1P	4-A- 2		491	(-70,-69)	498		SAME	
963	M61P10W	4-A- 3		443	(-70,-69)	437		SAME	
964	M61P6W	4-A- 4		358	(-70,-69)	363	366	(-80,-40)	356
965	M61P2W	4-A- 5		320	(-80,-40)	324		SAME	
966	M61C0W	4-A- 6	YES	0	(0, 0)	0		SAME	
967	M61S2W	4-A- 7		289	(-80,-40)	286		SAME	
968	M61S4W	4-A- 8		224	(-80,-40)	223		SAME	
969	M61S6W	4-A- 9		301	(-60, 16)	273	294	(-70, -1)	292
970	M61S8W	4-A-10		248	(-70, -1)	254		SAME	
971	M61S9 P	4-A-11		263	(-70, -1)	267		SAME	
972	M61S10W	4-A-12		258	(-70, -1)	253		SAME	
973	M61S10 5P	4-A-13		267	(-50, 29)	238	244	(-60, 16)	263
974	M61S11 1P	4-A-14		283	(-60, 16)	278		SAME	
975	M61S12W	4-A-15		289	(-40, 40)	275	294	(-60, 16)	289

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
976	M61S12 5P	4-A-16	YES	0	(0, 0)	0	0	(-80,-40)	0
977	M61S13W	4-A-17		398	(-60, 16)	316		SAME	
978	M61S14P	4-A-18		331	(-50, 29)	305	309	(-60, 16)	280
979	Z61COW	4-A-19		662	(-80,-40)	677		SAME	
980	Z61S2W	4-A-20		353	(-80,-40)	347		SAME	
981	Z61S4W	4-A-21		398	(-80,-40)	395		SAME	
982	Z61S6W	4-A-22		739	(-80,-40)	768		SAME	
983	Z61S8W	4-A-23		606	(-80,-40)	615		SAME	
984	Z61S9W	4-A-24		627	(-80,-40)	631		SAME	
985	Z61S10W	4-A-25		832	(-70, [illegible])	814	819	(-80,-40)	776
986	Z61S10 5P	4-A-26		994	(-70, [illegible])	974	977	(-80,-40)	884
987	Z61S10 9P	4-A-27		947	(-70,-1)	937	938	(-80,-40)	888
988	Z61P6W	4-A-28		762	(-80,-40)	816		SAME	
989	Z61P10W	4-A-29		674	(-80,-40)	915		SAME	
990	W61S2M3 9P	4-A-30		987	(-70,-1)	992	995	(-80,-40)	931
991	W61SM20 1P	4-A-31		662	(-70,-1)	645		SAME	
992	H56 1S21P	4-A-32		702	(-70,-1)	683		SAME	
993	H61S3W	4-A-33		549	(-80,-40)	567		SAME	
994	H61P5W	4-A-34		494	(-80,-40)	505		SAME	
995	H61S5W	4-A-35		511	(-80,-40)	522		SAME	
996	H61S7W	4-A-36		464	(-80,-40)	474		SAME	
997	H61P7W	4-A-37	YES	67	(-70, 69)	67		SAME	
998	H61S9W	4-A-38		217	(-10,-74)	210	216	(-10, 64)	217
999	H61S11W	4-A-39		294	(-70,-1)	302		SAME	
1000	H61P11W	4-A-40		349	(-70,-1)	349		SAME	
1001	H61S13W	4-A-41		431	(-70, 69)	417		SAME	
1002	H61S14W	4-A-42		382	(-70, 69)	382		SAME	
1003	H61P14W	4-A-43		206	(-50,-30)	216	217	(-40,-40)	196
1004	H61S15W	4-A-44		297	(-60,-76)	311		SAME	
1005	H61S16 5P	4-A-45		212	(-40, 80)	210		SAME	
1006	H61P16 5P	4-A-46		232	(-40,-80)	214		SAME	
1007	H61S18W	4-A-47		1072	(-80, 40)	365	697	(-50,-30)	721
1008	H61S20WL	4-A-48		283	(-40, 40)	277	280	(-50, 29)	283
1009	H61P20WL	4-A-49		514	(-70,-69)	505		SAME	
1010	H57 9P9S(C)	4-A-50		102	(-50,-30)	98		SAME	
1011	B56P811P(C)	4-A-51		65	(-60,-16)	66	70	(-70,-1)	57
1012	ASMZ76C098	4-A-52		345	(-80,-40)	322	328	(-70,-1)	343
1013	ASMZ76C105	4-A-53		383	(-70,-1)	376	386	(-80,-40)	379
1014	ASMZ76C112	4-A-54		446	(-80,-40)	455		SAME	
1015	ASMM66C5SA	4-A-55		486	(-60, 16)	471		SAME	
1016	ASMM66C4SA	4-A-56		555	(-60, 16)	543		SAME	
1017	ASMM66C3SA	4-A-57		530	(-70,-1)	531	534	(-60, 16)	528
1018	ASMM66C1SA	4-A-58	YES	5294	(-10,-74)	267	269	(-20,-77)	729
1019	ASMM66C1SA	4-A-59		367	(-70,-1)	363		SAME	
1020	W68S2MZ(D)	4-A-60		11	(0,-69)	0	0	(0, 69)	-3
1021	B72COHHRH	4-B-1		33	(-80,-40)	42		SAME	
1022	B72COHHRD	4-B-2		59	(-70,-1)	43	45	(-80,-40)	47
1023	B72COHHRV	4-B-3		51	(-80,-40)	82		SAME	
1024	B72P12 5FIRV	4-B-4		123	(-70,-1)	97	99	(-60,-16)	115
1025	B72P12 5FIRD	4-B-5		111	(-80,-40)	101	103	(-70,-1)	107
1026	B72P12 5FIRH	4-B-6		43	(-10,-74)	8	64	(-80, 40)	27
1027	B72S12 5FIRH	4-B-7		100	(-80, 40)	121	137	(-70, 69)	94
1028	B72S12 5FIRD	4-B-8		259	(-80,-40)	232	239	(-70,-69)	259
1029	B72S12 5FIRV	4-B-9		144	(0, 0)	0	53	(-70,-69)	37
1030	Z62 5COW	4-B-10		539	(-80,-40)	550		SAME	
1031	Z65COW	4-B-11		485	(-80,-40)	490		SAME	
1032	Z67COW	4-B-12		498	(-80,-40)	502		SAME	
1033	Z69COW	4-B-13		510	(-80,-40)	516		SAME	
1034	Z71COW	4-B-14		487	(-80,-40)	488		SAME	
1035	Z63S6W	4-B-15		520	(-80,-40)	521		SAME	
1036	Z63S11W	4-B-16	YES	8	(20,-57)	0	1	(-70, 69)	1
1037	M63COW	4-B-17		338	(-80,-40)	-1	1	(-40, 80)	-174
1038	M63S11 1P	4-B-18		320	(-70,-1)	314		SAME	
1039	M63S14P	4-B-19		361	(-60, 16)	354		SAME	
1040	M65COW	4-B-20		317	(-80,-40)	323		SAME	
1041	M65S11 1P	4-B-21		307	(-60, 16)	313		SAME	
1042	M65S14P	4-B-22		365	(-70,-1)	369	373	(-60, 16)	363
1043	M65P14P	4-B-23		587	(-70,-69)	573		SAME	
1044	M65P11 1P	4-B-24		506	(-70,-69)	509		SAME	
1045	M67COW	4-B-25	YES	0	(0, 0)	0		SAME	
1046	M67S11 1P	4-B-26		295	(-70,-1)	295	296	(-60, 16)	291
1047	M67S14P	4-B-27		-242	(20,-57)	-250	311	(-60, 16)	224
1048	M69COW	4-B-28	YES	0	(0, 0)	0		SAME	
1049	M69S11 1P	4-B-29		334	(-50, 29)	282	292	(-60, 16)	322
1050	M69S14P	4-B-30		356	(-70,-1)	300	303	(-60, 16)	353

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
1051	M69P11 1P	4-B-31		358	(-80,-40)	344		SAME	
1052	M69P14P	4-B-32	YES	0	(0, 0)	0		SAME	
1053	M71COW	4-B-33		312	(-80,-40)	306		SAME	
1054	M71S10 1P	4-B-34		269	(-60, 16)	266		SAME	
1055	M71S13P	4-B-35		1389	(0, 0)	0	360	(-60, 16)	-3228
1056	M63S8 SP	4-B-36		260	(-70, -1)	262		SAME	
1057	I69COP	4-B-37	YES	35	(80, 40)	34		SAME	
1058	I65COP	4-B-38		10	(0, 0)	0	6	(70, 69)	-4
1059	F65CONA	4-B-39	YES	0	(0, 0)	0		SAME	
1060	H63COP	4-B-40		334	(80, 40)	341		SAME	
1061	H65COP	4-B-41		755	(80, 40)	765		SAME	
1062	H65S13W	4-B-42		383	(70, 69)	384		SAME	
1063	H67COP	4-B-43	YES	0	(0, 0)	0		SAME	
1064	H69P13W	4-B-44		217	(60,-16)	218	219	(50,-30)	215
1065	H69COP	4-B-45	YES	0	(0, 0)	0		SAME	
1066	H69S13W	4-B-46		0	(0, 0)	0	276	(80, 40)	0
1067	H71COP	4-B-47		482	(80, 40)	483		SAME	
1068	I61COP	4-B-48		334	(80, 40)	337		SAME	
1069	F61CONA	4-B-49		13	(-60, 16)	9	[illegible]	(-80,-40)	13
1070	B64S8 SMMRV	4-B-50		36	(-10, 64)	19	29	(-70, -1)	4
1071	B64S8 SMMRD	4-B-51		107	(-70, -1)	83	86	(-80,-40)	99
1072	B64S8 SMMRH	4-B-52		508	(80, 40)	257	257	(-80,-40)	-75
1073	H65S20P(CL)	4-B-53		276	(-30, 49)	263		SAME	
1074	H65S20P(ACL)	4-B-54		246	(-40, 40)	244	245	(-30, 49)	242
1075	H65S20P(FCL)	4-B-55		226	(-40, 40)	218	219	(-30, 49)	224
1076	ASM276C090	4-B-56		260	(-70, 1)	260		SAME	
1077	ASM262C65	4-B-57		532	(-80,-40)	535		SAME	
1078	ASM262C60	4-B-58	YES	5382	(30,-49)	270	345	(70, 1)	2298
1079	ASM262C55	4-B-59		394	(-80,-40)	423		SAME	
1080	H68S19P(D)	4-B-60		10	(0, 0)	0	2	(80, 40)	0
1081	B80CDZZP	3- -1		118	(80,-40)	104		SAME	
1082	B80CDZZS	3- -2		220	(80, 40)	218		SAME	
1083	B80P3ZZP	3- -3		77	(80,-40)	76		SAME	
1084	B80P3ZZS	3- -4		121	(80, 40)	130		SAME	
1085	B80P8ZZP	3- -5		40	(70,-69)	44	45	(-80,-40)	38
1086	B80P8ZZS	3- -6		85	(50,-30)	48	60	(80, 40)	56
1087	B80COMZP	3- -7		60	(-70,-69)	0	6	(-40, 40)	21
1088	B80COMZS	3- -8		21	(70, 69)	22	28	(80, 40)	15
1089	B80P3MZP	3- -9		42	(-80,-40)	35		SAME	
1090	B80P3MZS	3- -10		118	(50, 30)	48	74	(80, 40)	76
1091	B80P8MZP	3- -11		52	(50, 30)	7	11	(80, 40)	18
1092	B80P8MZS	3- -12		31	(50,-30)	16	26	(80, 40)	15
1093	B80COMFP	3- -13	YES	0	(0, 0)	0		SAME	
1094	B80COMFS	3- -14		42	(-20, 77)	[illegible]	7	(50,-79)	30
1095	B80P9MFP	3- -15		37	(50, 30)	16	36	(80, 40)	33
1096	B80P9MFS	3- -16		112	(-60,-76)	51		SAME	
1097	B80COFIP	3- -17		39	(80, 40)	47		SAME	
1098	B80COFIS	3- -18		129	(-80,-40)	114		SAME	
1099	B80P6FIP	3- -19		32	(80, 40)	36		SAME	
1100	B80P6FIS	3- -20		30	(0,-69)	9	26	(70, 1)	-2
1101	B80S4ZZP	3- -21		94	(-80,-40)	87		SAME	
1102	B80S4ZZS	3- -22		198	(50,-30)	122	193	(80, 40)	196
1103	B80S8ZZP	3- -23		63	(-80,-40)	61		SAME	
1104	B80S8ZZS	3- -24		148	(80, 40)	132		SAME	
1105	B80S4MZP	3- -25		36	(-60,-76)	19	25	(-80,-40)	30
1106	B80S4MZS	3- -26		83	(50,-30)	16	37	(80, 40)	36
1107	B80S8MZP	3- -27		36	(50,-30)	5	8	(80, 40)	6
1108	B80S8MZS	3- -28		9077	(50,-30)	30	35	(70, 1)	-339
1109	B80S7MFP	3- -29		47	(50,-30)	4	4	(70, 1)	9
1110	B80S7MFS	3- -30		43	(-10, 64)	12	14	(-40, 40)	35
1111	B80S6FIP	3- -31		31	(50,-30)	22	27	(70, 1)	27
1112	B80S6FIS	3- -32		78	(50,-30)	23	56	(70, 69)	34
1113	B80COHHRH	3- -33		86	(50,-30)	4	17	(-50,-79)	-4
1114	B80COHHRD	3- -34		87	(-80,-40)	91		SAME	
1115	B80COHHRV	3- -35		53	(-80,-40)	51		SAME	
1116	B80P7IIRV	3- -36		32	(50,-30)	9	15	(80, 40)	12
1117	B80P7IIRD	3- -37		21	(-20, 57)	8	8	(-30, 49)	21
1118	B80P7IIRH	3- -38		48	(-50, 29)	42	51	(-80,-40)	44
1119	B80P11FIRV	3- -39		37	(70, 1)	29	35	(80, 40)	31
1120	B80P11FIRD	3- -40		79	(-70,-69)	16	23	(-20,-77)	63
1121	B80P11FIRH	3- -41		58	(-20,-77)	42	49	(-60,-76)	42
1122	B80P12FFRV	3- -42	YES	0	(0, 0)	0		SAME	
1123	B80P12FFRD	3- -43		32	(50,-30)	0	30	(60, 76)	26
1124	B80P12FFRH	3- -44		23	(-80,-40)	17	17	(-70,-69)	23
1125	B80S7IIRH	3- -45		82	(-80,-40)	79		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
1126	B80S711RD	3- -46	YES	0	(0, 0)	0		SAME	
1127	B80S711RV	3- -47		67	(-10, 64)	23	29	(-80, 16)	49
1128	B80S11FIRH	3- -48		32	(50,-30)	-4	4	(-50, 29)	15
1129	B80S11FIRD	3- -49		77	(-80,-40)	74	79	(-70,-69)	77
1130	B80S11FIRV	3- -50		63	(-70,-69)	50	51	(-60,-76)	63
1131	B80S12FFRH	3- -51		16	(-60, 16)	14		SAME	
1132	B80S12FFRD	3- -52	YES	1	(0,-69)	0	0	(40,-40)	-1
1133	B80S12FFRV	3- -53		40	(-50,-79)	34	36	(70,-69)	38
1134	H84 SS21P(CU)	3- -54		197	(-60, 16)	196		SAME	
1135	H101P20P(UC)	3- -55		64	(-70,-69)	64	65	(-80,-40)	62
1136	H100P20P(AC)	3- -56		53	(-80, 40)	55	57	(-70,-69)	53
1137	B98COMMP(C)	3- -57		43	(80, 40)	48		SAME	
1138	M101 3COW(C)	3- -58		104	(-80,-40)	98		SAME	
1139	M101 3COW(C)	3- -59		25	(50,-30)	3	6	(80,-40)	2
1140	B80CMF(D)	3- -60		10	(-10,-74)	[illegible]	5	(-80,-40)	6
1141	M73P13P	3-A- 1		268	(-80,-40)	258		SAME	
1142	M73P12W	3-A- 2		512	(-70,-69)	501		SAME	
1143	M73P10 1P	3-A- 3		427	(-70,-69)	412		SAME	
1144	M73P8W	3-A- 4		347	(-80,-40)	353		SAME	
1145	M73P6W	3-A- 5		330	(-80,-40)	338		SAME	
1146	M73P2W	3-A- 6		310	(-80,-40)	315		SAME	
1147	M73C0W	3-A- 7		318	(-80,-40)	318		SAME	
1148	M73S2W	3-A- 8		270	(-80,-40)	269		SAME	
1149	M73S4W	3-A- 9		510	(-70,-69)	514		SAME	
1150	M73S6W	3-A-10		236	(-70, -1)	242		SAME	
1151	M73S8W	3-A-11		238	(-70, -1)	251		SAME	
1152	M73S9W	3-A-12		264	(-70, -1)	267		SAME	
1153	M73S9 5P	3-A-13	YES	0	(0, 0)	0		SAME	
1154	M73S10 1P	3-A-14		287	(-70, -1)	279		SAME	
1155	M73S11W	3-A-15		306	(-60, 16)	299	299	(-70, -1)	304
1156	M73S11 5P	3-A-16		272	(-60, 16)	268		SAME	
1157	M73S12P	3-A-17		307	(-60, 16)	301		SAME	
1158	M73S12 5P	3-A-18		336	(-70, -1)	324	327	(-60, 16)	332
1159	M73S13P	3-A-19		340	(-60, 16)	338		SAME	
1160	Z73C0W	3-A-20		467	(-80,-40)	469		SAME	
1161	Z73S2W	3-A-21		474	(-80,-40)	480		SAME	
1162	Z73S4W	3-A-22		410	(-80,-40)	418		SAME	
1163	Z73S6W	3-A-23		487	(-80,-40)	530		SAME	
1164	Z73S8W	3-A-24		531	(-80,-40)	540		SAME	
1165	Z73S9W	3-A-25		524	(-80,-40)	525		SAME	
1166	Z73S9 5P	3-A-26		555	(-80,-40)	522	526	(-70, -1)	552
1167	Z73S10W	3-A-27		634	(-80,-40)	634		SAME	
1168	Z73S11P	3-A-28		8240	(50,-30)	-506	612	(-80,-40)	220
1169	Z73P6W	3-A-29		589	(-80,-40)	630		SAME	
1170	Z73P10W	3-A-30		620	(-80,-40)	628		SAME	
1171	W73SMZ0 1P	3-A-31		305	(-70, -1)	298		SAME	
1172	W73SMZ2 0W	3-A-32		261	(-60, 16)	243	250	(-70, -1)	245
1173	W73SZM3 9P	3-A-33		557	(-80,-40)	542	550	(-70, -1)	555
1174	H78S20P(CL)	3-A-34		183	(-50, 29)	183		SAME	
1175	H73S1W	3-A-35		436	(80, 40)	429		SAME	
1176	H73S3W	3-A-36		417	(80, 40)	406		SAME	
1177	H73P3W	3-A-37		441	(80, 40)	447		SAME	
1178	H73S5W	3-A-38		368	(80, 40)	365		SAME	
1179	H73S7W	3-A-39		382	(80, 40)	385		SAME	
1180	H73P7W	3-A-40		233	(70, 1)	247		SAME	
1181	H73S9W	3-A-41		356	(70, 69)	360		SAME	
1182	H73S11W	3-A-42	YES	0	(0, 0)	0		SAME	
1183	H73P11W	3-A-43		241	(50,-30)	218	228	(70, 1)	237
1184	H73S12W	3-A-44		377	(70, 69)	386		SAME	
1185	H73S13W	3-A-45		378	(70, 69)	376		SAME	
1186	H73P13W	3-A-46		252	(50,-30)	243	245	(60,-16)	242
1187	H73S14W	3-A-47		322	(70, 69)	321		SAME	
1188	H73S15W	3-A-48		247	(60, 76)	251		SAME	
1189	H73P15W	3-A-49		207	(-20,-77)	163	169	(0,-69)	146
1190	H73S16 8P	3-A-50		193	(40, 80)	189	192	(30, 79)	18[illegible]
1191	H73P16 5P	3-A-51		204	(-60,-76)	200	204	(-50,-79)	204
1192	H73S18W	3-A-52	YES	0	(0, 0)	0	2	(80, 40)	0
1193	H73S20W	3-A-53		285	(-60, 16)	280		SAME	
1194	H73P20W	3-A-54		451	(-70,-69)	455		SAME	
1195	H79 SS18P(AC)	3-A-55		42	(0,-69)	36	45	(50,-30)	4
1196	198 1COP(C)	3-A-56		92	(-80,-40)	97		SAME	
1197	B98S6MMP(C)	3-A-57		184	(80, 40)	195		SAME	
1198	H17S17W(C)	3-A-58		36	(-70, -1)	44		SAME	
1199	RESISTOR	3-A-59		37	(0, 0)	0	8	(-70,-69)	-6
1200	H78S19(D)	3-A-60		1494	(20,-57)	-1	2	(40, 80)	-300

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1201	Z75COW	3-B- 1		429	(-80,-40)	426		SAME	
1202	Z77COW	3-B- 2		400	(-80,-40)	406		SAME	
1203	Z79COW	3-B- 3		327	(-80,-40)	335		SAME	
1204	Z79 5COW	3-B- 4	YES	0	(0, 0)	0		SAME	
1205	Z83COW	3-B- 5		270	(-80,-40)	284		SAME	
1206	Z85COW	3-B- 6		183	(-80,-40)	189		SAME	
1207	W83PZM3 9P	3-B- 7		324	(70,-69)	318	320	(-80,-40)	322
1208	Z83P6W	3-B- 8		344	(-80,-40)	342		SAME	
1209	RESISTOR	3-B- 9	YES	0	(0, 0)	0	[illegible]	(-80,-40)	0
1210	Z83S6W	3-B-10		240	(-80,-40)	247		SAME	
1211	Z79 5S6W	3-B-11		331	(-80,-40)	349		SAME	
1212	Z79 5S9 9P	3-B-12		382	(-70, -1)	374		SAME	
1213	W83SMZ0 1P	3-B-13	YES	0	(0, 0)	0		SAME	
1214	W83SMZ2 0W	3-B-14		159	(70, -1)	138		SAME	
1215	W83SZM3 9P	3-B-15	YES	0	(0, 0)	0		SAME	
1216	M75COW	3-B-16		220	(-70, -1)	216		SAME	
1217	M75S10 1P	3-B-17		280	(-70, -1)	280		SAME	
1218	M75S13P	3-B-18		294	(-60, 16)	290		SAME	
1219	M77COW	3-B-19		326	(-80,-40)	329		SAME	
1220	M77S10 1P	3-B-20		339	(-70, -1)	3		SAME	
1221	M77S13P	3-B-21		247	(-50, 29)	239	240	(-60, 16)	245
1222	B80P6I1W(C)	3-B-22		58	(50,-30)	-18	27	(-80,-40)	17
1223	M77P13P	3-B-23	YES	0	(0, 0)	0		SAME	
1224	M79COW	3-B-24		289	(-80,-40)	288		SAME	
1225	M79S10 1P	3-B-25		220	(-70, -1)	221		SAME	
1226	M79S13P	3-B-26		174	(-60, 16)	177		SAME	
1227	M85COW	3-B-27		224	(-80,-40)	225		SAME	
1228	M81S10 1P	3-B-28		178	(-70, -1)	181		SAME	
1229	M81S13P	3-B-29		196	(-60, 16)	200	201	(-70, -1)	192
1230	M81P10 1P	3-B-30		273	(-70,-69)	259		SAME	
1231	M81P13P	3-B-31		33	(-70,-69)	323		SAME	
1232	M83COW	3-B-32	YES	0	(0, 0)	0		SAME	
1233	M83S10 1P	3-B-33		190	(-70, -1)	187		SAME	
1234	M83S13P	3-B-34		239	(-60, 16)	238	239	(-70, -1)	239
1235	M81COW	3-B-35		280	(-80,-40)	278		SAME	
1236	M85S10 1P	3-B-36		174	(-70, -1)	172		SAME	
1237	M85S13P	3-B-37		141	(-60, 16)	138		SAME	
1238	M85P10 1P	3-B-38		294	(-80,-40)	300		SAME	
1239	M85P13P	3-B-39		229	(-70,-69)	232		SAME	
1240	F81 5S(4INS (B)	3-B-40		48	(20,-57)	35	41	(-20,-77)	44
1241	M81S5 SP	3-B-41		282	(-80,-40)	283		SAME	
1242	M83S5 SP	3-B-42	YES	0	(0, 0)	0		SAME	
1243	M83P10 1P	3-B-43		292	(-70,-69)	296		SAME	
1244	M83P13P	3-B-44	YES	0	(0, 0)	0		SAME	
1245	I73COP	3-B-45		157	(80, 40)	158		SAME	
1246	I77COP	3-B-46		210	(80, 40)	217		SAME	
1247	I81COP	3-B-47		193	(80, 40)	203		SAME	
1248	F81CONA	3-B-48		15	(-80,-40)	14	14	(-70, -1)	13
1249	F85CONA	3-B-49		45	(-80,-40)	38		SAME	
1250	B80P8MMRH	3-B-50		27	(-30,-79)	16		SAME	
1251	B80P8MMRO	3-B-51		50	(-70,-69)	46		SAME	
1252	B80P8MMRV	3-B-52	YES	2	(60, 76)	0	0	(70, 69)	0
1253	B80P9MFRH	3-B-53		71	(-70,-69)	66	67	(-80,-40)	67
1254	B80P9MFRD	3-B-54		81	(-70,-69)	69	70	(-80,-40)	79
1255	B80P9MFRV	3-B-55		10	(-20,-77)	0	4	(70, 1)	-3
1256	I85COP	3-B-56		257	(80, 40)	252		SAME	
1257	RESISTOR	3-B-57	YES	0	(0, 0)	0	1	(80, 40)	0
1258	RESISTOR	3-B-58		25	(0, 69)	2	5	(70, 69)	-5
1259	RESISTOR	3-B-59		657	(-10,-74)	138	258	(-70,-69)	289
1260	M83P19(D)	3-B-60		10	(-20,-77)	-3	3	(-10, 64)	8
1261	B86COZZP	2- - 1		84	(80, 40)	91		SAME	
1262	B86COZZS	2- - 2		316	(-80,-40)	320		SAME	
1263	B86P3ZZP	2- - 3		59	(80, 40)	59		SAME	
1264	B86P3ZZS	2- - 4		212	(-80,-40)	217		SAME	
1265	B86P8ZZP	2- - 5		41	(70, 1)	48	54	(80, 40)	41
1266	B86P8ZZS	2- - 6		145	(-80,-40)	145		SAME	
1267	B86COMZP	2- - 7		8	(80, 40)	5	5	(70, 69)	6
1268	B86COMZS	2- - 8		60	(-60, 16)	47	62	(-80,-40)	56
1269	B86P3MZP	2- - 9		25	(-10, 64)	1	15	(-80,-40)	3
1270	B86P3MZS	2- -10		18	(-10, 64)	3	4	(-50, 29)	10
1271	B86P8MZP	2- -11		12	(40, 80)	10	10	(60, 76)	10
1272	B86P8MZS	2- -12		24	(-20, 57)	14	16	(-60, 16)	20
1273	B86COMFP	2- -13		10	(0, 0)	0	2	(40, 80)	8
1274	B86COMFS	2- -14		148	(-80,-40)	148		SAME	
1275	B86P9MFP	2- -15		31	(-80,-40)	26		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT, LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT, LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
1276	B86P9MFS	2- -16		47	(-20, 57)	30	35	(-60, 16)	43
1277	B86COFIP	2- -17		22	(-80, -40)	14		SAME	
1278	B86COFIS	2- -18		13	(70, 69)	16	17	(80, 40)	11
1279	B86P6FIP	2- -19		23	(-70, -1)	24	24	(-80, -40)	19
1280	B86P6FIS	2- -20	YES	35	(-80, -40)	35		SAME	
1281	B86S4ZZP	2- -21		21	(70, 1)	24	27	(80, 40)	21
1282	B86S4ZZS	2- -22		153	(-80, -40)	151		SAME	
1283	B86S8ZZP	2- -23		58	(80, 40)	61		SAME	
1284	B86S8ZZS	2- -24	YES	143	(-80, -40)	143		SAME	
1285	B86S4MZP	2- -25		12	(-10, 64)	0	6	(80, 40)	2
1286	B86S4MZS	2- -26		64	(-80, 40)	70		SAME	
1287	B86S8MZP	2- -27		22	(10, -64)	9	11	(50, -30)	13
1288	B86S8MZS	2- -28		23	(-30, -79)	19	25	(-70, -69)	11
1289	B86S2MFP	2- -29		22	(-70, -1)	26	28	(-80, -40)	22
1290	B86S2MFS	2- -30		76	(60, -16)	8	17	(70, 69)	13
1291	B86S6FIP	2- -31		28	(-50, -79)	18	21	(70, -69)	22
1292	B86S6FIS	2- -32		33	(-80, -40)	37		SAME	
1293	B86COHHRH	2- -33		14	(80, 40)	15	15	(70, 69)	10
1294	B86COHHRD	2- -34		7	(-50, 29)	7		SAME	
1295	B86COHHRV	2- -35		62	(-80, -40)	57		SAME	
1296	B86P7IIRV	2- -36	YES	2	(0, 0)	0	1	(70, 69)	0
1297	B86P7IIRD	2- -37		33	(40, 80)	29	32	(70, 69)	31
1298	B86P7IIRH	2- -38		48	(-80, -40)	42		SAME	
1299	B86P11FIRV	2- -39		41	(40, 80)	20	20	(50, 79)	24
1300	B86P11FIRH	2- -40	YES	0	(0, 0)	0	0	(80, 40)	0
1301	B86P11FIRD	2- -41		52	(-80, -40)	49		SAME	
1302	B86P12FFRV	2- -42		25	(40, 80)	23	25	(60, 76)	23
1303	B86P12FFRD	2- -43		75	(80, 40)	73		SAME	
1304	B86P12FFRH	2- -44		26	(70, 69)	25	26	(80, 40)	22
1305	B86S7IIRH	2- -45		105	(-80, -40)	103		SAME	
1306	B86S7IIRD	2- -46		93	(-80, -40)	91		SAME	
1307	B86S7IIRV	2- -47		36	(-20, -77)	21	32	(-70, -69)	14
1308	B86S11FIRH	2- -48		103	(-20, -77)	35	80	(-80, -40)	73
1309	B86S11FIRD	2- -49		37	(-80, -40)	33		SAME	
1310	B86S11FIRV	2- -50		33	(-30, -79)	27	27	(-40, -80)	31
1311	B86S12FFRH	2- -51		14	(-60, -76)	4	4	(-30, -79)	10
1312	B86S12FFRD	2- -52		40	(60, -16)	37	39	(70, 1)	40
1313	B86S12FFRV	2- -53		38	(30, -49)	32	36	(60, -16)	38
1314	H84 5S21P(CM)	2- -54		172	(-50, 29)	165		SAME	
1315	H84 5S21P(CL)	2- -55		178	(-50, 29)	177	178	(-60, 16)	178
1316	RESISTOR	2- -56		14	(0, 0)	0	2	(10, 74)	-4
1317	RESISTOR	2- -57		11	(0, 0)	0	2	(50, 79)	-3
1318	RESISTOR	2- -58		9	(0, 0)	0	3	(60, 76)	-1
1319	RESISTOR	2- -59		17	(0, 0)	0	4	(70, 69)	3
1320	W78P3MZ(D)	2- -60		47	(30, 79)	-2	3	(20, -57)	-30
1321	B92COZZP	2-A- 1		179	(70, 69)	170	173	(80, 40)	169
1322	B92COZZS	2-A- 2		315	(-80, -40)	311		SAME	
1323	B92P4ZZP	2-A- 3		30	(60, -16)	27	48	(70, 69)	22
1324	B92P4ZZS	2-A- 4		149	(-80, -40)	144		SAME	
1325	B92P8ZZP	2-A- 5		126	(70, 1)	91	111	(80, 40)	118
1326	B92P8ZZS	2-A- 6		77	(50, 79)	42	48	(70, 69)	65
1327	B92COMZP	2-A- 7		58	(60, 76)	30	31	(70, 69)	50
1328	B92COMZS	2-A- 8		24	(30, 79)	9	10	(-10, 64)	8
1329	B92P4MZP	2-A- 9		41	(30, 79)	34	44	(70, 69)	33
1330	B92P4MZS	2-A-10		64	(-10, 64)	9	21	(-70, -1)	-3
1331	B92P8MZP	2-A-11		57	(-10, 64)	41	47	(-50, 29)	21
1332	B92P8MZS	2-A-12		344	(0, 0)	0	39	(-70, -1)	-49
1333	B92COMFP	2-A-13		59	(0, 0)	0	9	(-40, 40)	-2
1334	B92COMFS	2-A-14		126	(-80, -40)	133		SAME	
1335	B92P8MFP	2-A-15		61	(-60, 16)	64	70	(-80, -40)	55
1336	B92P8MFS	2-A-16		113	(-70, -69)	114	123	(-80, -40)	107
1337	B92COFIP	2-A-17		997	(-10, -74)	34	36	(-40, -80)	-24
1338	B92COFIS	2-A-18		173	(0, -69)	-4	12	(70, 69)	-21
1339	B92P6FIP	2-A-19		39	(-70, -1)	46	47	(-80, -40)	33
1340	B92P6FIS	2-A-20	YES	43	(-70, -69)	32	36	(-80, -40)	41
1341	B92S4ZZP	2-A-21		64	(-30, -79)	37	37	(-40, -80)	58
1342	B92S4ZZS	2-A-22		200	(-10, 64)	62	144	(-70, -1)	107
1343	B92S8ZZP	2-A-23		51	(50, -30)	54	63	(70, 1)	43
1344	B92S8ZZS	2-A-24	YES	109	(-10, -76)	100	115	(-80, -40)	65
1345	B92S4MZP	2-A-25		73	(-30, -79)	9	9	(-20, -77)	73
1346	B92S4MZS	2-A-26		30	(0, -69)	30	44	(60, -16)	21
1347	B92S8MZP	2-A-27		74	(-70, -69)	68		SAME	
1348	B92S8MZS	2-A-28		67	(-40, -80)	37	60	(-80, -40)	40
1349	B92S2MFP	2-A-29		8	(0, -69)	1	1	(-40, -80)	-4
1350	B92S2MFS	2-A-30		25	(-50, 29)	21	29	(-80, -40)	17

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
1351	B92S6FIP	2-A-31		56	(-70, -69)	51	56	(-80, -40)	54
1352	B92S6FIS	2-A-32		33	(-60, 16)	31	36	(-80, -40)	33
1353	B92P 2HHRH	2-A-33		39	(-20, 57)	28	40	(-70, -1)	37
1354	B92P 2HHRD	2-A-34		63	(-80, -40)	62		SAME	
1355	B92P 2HHRV	2-A-35		13	(-70, -1)	6		SAME	
1356	B92P711RV	2-A-36	YES	5	(0, 0)	0	1	(70, 1)	1
1357	B92P711RD	2-A-37		84	(-80, -40)	88		SAME	
1358	B92P711RH	2-A-38		74	(-80, -40)	77		SAME	
1359	B92P11FIRV	2-A-39		26	(-30, 49)	8	18	(50, 79)	10
1360	B92P11FIRD	2-A-40	YES	0	(0, 0)	0	0	(60, 76)	0
1361	B92P11FIRH	2-A-41		57	(-70, -69)	40	48	(-80, -40)	53
1362	B92P11 9FFRV	2-A-42		24	(70, 69)	32		SAME	
1363	B92P11 9FFRD	2-A-43		55	(70, 69)	43	44	(80, 40)	49
1364	B92P11 9FFRH	2-A-44		30	(80, 40)	29	40	(60, 76)	24
1365	B92S711RH	2-A-45		59	(-80, -40)	54		SAME	
1366	B92S711RD	2-A-46		32	(-60, 16)	30	31	(-70, -1)	30
1367	B92S711RV	2-A-47		45	(-70, -69)	40		SAME	
1368	B92S11FIRH	2-A-48		74	(-80, -40)	67	68	(-70, -69)	66
1369	B92S11FIRD	2-A-49		11	(50, 79)	7	7	(40, 80)	5
1370	B92S11FIRV	2-A-50		58	(0, 0)	0	12	(-80, -40)	5
1371	B92S11 9FFRH	2-A-51		49	(0, -69)	38	39	(-20, -77)	26
1372	B92S11 9FFRD	2-A-52		35	(70, 1)	23	27	(50, -30)	28
1373	B92S11 9FFRV	2-A-53		25	(30, -49)	17	20	(60, -16)	12
1374	F91S11 9P(BB)	2-A-54		108	(40, -40)	97	107	(70, 1)	96
1375	M87 5P10S(PST)	2-A-55		236	(-70, -69)	236		SAME	
1376	RESISTOR	2-A-56		28	(0, 0)	0	7	(70, 1)	2
1377	RESISTOR	2-A-57	YES	0	(0, 0)	0	191	(-80, -40)	0
1378	RESISTOR	2-A-58		47	(0, 0)	0	4	(-70, -69)	-4
1379	RESISTOR	2-A-59	YES	0	(0, 0)	0	8	(80, 40)	0
1380	M79 5CO(D)	2-A-60		15	(-40, -80)	6	6	(-70, -69)	7
1381	M93 6P8W	2-B- 1		269	(-80, -40)	266		SAME	
1382	M93 6P8 SP	2-B- 2		263	(-80, -40)	265		SAME	
1383	M93 6P9W	2-B- 3		270	(-80, -40)	271		SAME	
1384	M93 6P9 SP	2-B- 4		196	(-80, -40)	200		SAME	
1385	M93 6P10W	2-B- 5		279	(-70, -69)	271	277	(-80, -40)	276
1386	M93 6P11W	2-B- 6		236	(-80, -40)	240		SAME	
1387	M92 8P8W	2-B- 7		136	(-70, -69)	121		SAME	
1388	M92 8P8 SRH	2-B- 8		154	(80, 40)	158		SAME	
1389	M92 8P8 SRD	2-B- 9		102	(-40, -80)	94	95	(-30, -79)	102
1390	M92 8P8 SRL	2-B-10		349	(-80, -40)	350		SAME	
1391	M92 8P9W	2-B-11		321	(-80, -40)	323		SAME	
1392	M92 8P9 SP	2-B-12		226	(-80, -40)	233		SAME	
1393	M92 8P10W	2-B-13		277	(-80, -40)	279		SAME	
1394	M92 8P11W	2-B-14		207	(-70, -69)	203		SAME	
1395	M92 8P12W	2-B-15		223	(-70, -69)	223		SAME	
1396	M92 2P8W	2-B-16		119	(-50, -79)	104	106	(-60, -76)	115
1397	H85 9P17P(LP)	2-B-17		114	(-40, -80)	113		SAME	
1398	M92 2P8 SP	2-B-18		104	(50, -30)	111	112	(40, -40)	96
1399	B92P7MMS(C)	2-B-19		154	(-80, -40)	155		SAME	
1400	M92 3P9S	2-B-20		284	(-70, -69)	291	296	(-80, -40)	280
1401	M92 3P9 2RH	2-B-21		64	(70, 69)	70		SAME	
1402	M92 3P9 2RD	2-B-22		76	(0, -69)	66	72	(30, -49)	61
1403	M92 3P9 2RL	2-B-23		341	(-80, -40)	350		SAME	
1404	M92 3P9 SP	2-B-24	YES	439	(-80, -40)	448		SAME	
1405	M92 3P10S	2-B-25		280	(-80, -40)	275		SAME	
1406	M92 3P11S	2-B-26		229	(-70, -69)	224		SAME	
1407	M92 3P12S	2-B-27		238	(-80, -40)	238		SAME	
1408	M91 6P8S	2-B-28		327	(-80, -40)	344		SAME	
1409	M91 6P8 2P	2-B-29		226	(-70, -69)	229		SAME	
1410	M91 6P8 SP	2-B-30		242	(-70, -69)	244	249	(-80, -40)	240
1411	M91 6P9W	2-B-31		219	(-80, -40)	195	198	(-70, -69)	219
1412	M91 6P9 SP	2-B-32		224	(-70, -69)	222		SAME	
1413	M91 6P9 7RL	2-B-33		211	(-70, -69)	218		SAME	
1414	M91 6P9 7RH	2-B-34		264	(70, 1)	317	330	(80, 40)	256
1415	M91 6P9 7RD	2-B-35		76	(70, 69)	82		SAME	
1416	M91 6P10W	2-B-36	YES	3	(30, -49)	0	2	(80, 40)	3
1417	M91 6P11W	2-B-37		280	(-80, -40)	284		SAME	
1418	M91 6P12W	2-B-38		258	(-70, -69)	249	260	(-80, -40)	234
1419	H86 1P19P(HSU)	2-B-39		508	(80, 40)	522		SAME	
1420	H86 1P19P(HSL)	2-B-40	YES	0	(0, 0)	0	0	(80, 40)	0
1421	B64S 1MMP(CUST)	2-B-41		49	(10, -84)	11	12	(-20, -77)	34
1422	H71 9P15P(C)	2-B-42		261	(40, -40)	219		SAME	
1423	H71P9P(C)	2-B-43		231	(70, 1)	224		SAME	
1424	B64P8 SMFRV(BB)	2-B-44		49	(-60, -76)	45	48	(-70, -69)	47
1425	B64P8 SMFRD(BB)	2-B-45		188	(-80, -40)	187		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1426	B64P8.5MFRH(BB)	2-B-46		85	(-80,-40)	92		SAME	
1427	M80S9S(SU)	2-B-47		76	(-40, 40)	73	74	(-30, 49)	74
1428	M80S9S(SL)	2-B-48		67	(-60, 16)	68	72	(-70, -1)	67
1429	H79 5S18P(FC)	2-B-49		44	(40,-40)	39	40	(30,-49)	40
1430	H79S20P(CU)	2-B-50		159	(-20, 57)	158		SAME	
1431	RESISTOR	2-B-51		28	(0, 69)	3	5	(60, 76)	2
1432	RESISTOR	2-B-52		15	(0, 69)	0	2	(-80,-40)	-1
1433	RESISTOR	2-B-53	YES	0	(0, 0)	0	18	(-80,-40)	0
1434	RESISTOR	2-B-54	YES	0	(0, 0)	0	17	(80, 40)	0
1435	RESISTOR	2-B-55		13	(0, 0)	0	5	(60, 76)	3
1436	RESISTOR	2-B-56		14	(0, 0)	0	3	(50, 79)	-2
1437	RESISTOR	2-B-57		25	(0, 65)	3	4	(60, 76)	0
1438	RESISTOR	2-B-58		12	(0, 69)	2	3	(40, 80)	-10
1439	RESISTOR	2-B-59	YES	0	(0, 0)	0	11	(-80,-40)	0
1440	H89P19(D)	2-B-60		14	(-20,-77)	0	2	(70, 1)	-4
1441	Z87COW	1- -1		157	(-80,-40)	161		SAME	
1442	Z89COW	1- -2		149	(-80,-40)	141		SAME	
1443	Z91COW	1- -3		51	(-80,-40)	45		SAME	
1444	W91 9SMZO 1RL	1- -4	YES	30	(-20, 57)	19	19	(-40, 40)	26
1445	W91 9SMZO 1RD	1- -5		730	(-80,-40)	757		SAME	
1446	W91 9SMZO 1RV	1- -6		66	(0,-69)	35	44	(50,-30)	48
1447	M87COW	1- -7		256	(-80,-40)	255		SAME	
1448	M87S9 1P	1- -8		241	(-60, 16)	177	187	(-70, -1)	231
1449	M87S12	1- -9		152	(-70, -1)	157		SAME	
1450	M89COW	1- -10	YES	0	(0, 0)	0		SAME	
1451	M89S9 1P	1- -11		173	(-70, -1)	178		SAME	
1452	M89S12	1- -12	YES	0	(0, 0)	0		SAME	
1453	M89P9 1P	1- -13		259	(-70,-69)	230		SAME	
1454	M89P12	1- -14	YES	0	(0, 0)	0		SAME	
1455	M91COW	1- -15		172	(-70, -1)	137	162	(-80,-40)	162
1456	M91S9 1P	1- -16		162	(-70, -1)	180		SAME	
1457	M91S12	1- -17		198	(-70, -1)	198		SAME	
1458	M93COW	1- -18	YES	0	(0, 0)	0		SAME	
1459	M93S12	1- -19		151	(-70, -1)	136		SAME	
1460	M93P12	1- -20	YES	0	(0, 0)	0		SAME	
1461	M97COW	1- -21		121	(-80,-40)	127		SAME	
1462	M97S12	1- -22		40	(-10, 64)	44	44	(-20, 57)	40
1463	M97P12	1- -23		83	(-70,-69)	80		SAME	
1464	M99COW	1- -24		116	(-80,-40)	123		SAME	
1465	M99S12	1- -25		39	(-50, 29)	38	39	(-60, 16)	37
1466	M101COW	1- -26		102	(-80,-40)	103		SAME	
1467	M101S12	1- -27		78	(-70, -1)	79		SAME	
1468	M101P12	1- -28	YES	0	(0, 0)	0		SAME	
1469	M103COW	1- -29		83	(-80,-40)	2	3	(-40,-80)	45
1470	M103S11	1- -30		85	(-70, -1)	81		SAME	
1471	M105COW	1- -31		111	(-80,-40)	104		SAME	
1472	M105S11	1- -32		114	(-80,-40)	110		SAME	
1473	M105P11	1- -33	YES	0	(0, 0)	0		SAME	
1474	M107S11	1- -34		63	(-70, -1)	66		SAME	
1475	M107COW	1- -35		159	(-80,-40)	167		SAME	
1476	F89CONA	1- -36		8	(-50,-79)	4	5	(-80,-40)	4
1477	I89COP	1- -37		144	(80, 40)	147		SAME	
1478	F93CONA	1- -38		46	(80, 40)	52		SAME	
1479	I93COP	1- -39	YES	0	(0, 0)	0		SAME	
1480	F97CONA	1- -40		51	(80, 40)	49		SAME	
1481	I97COP	1- -41		119	(80, 40)	121		SAME	
1482	F101CONA	1- -42		147	(80, 40)	157		SAME	
1483	I101COP	1- -43		70	(-80,-40)	-26	26	(80, 40)	35
1484	F105CONA	1- -44		155	(80, 40)	134		SAME	
1485	I105COP	1- -45		53	(-80,-40)	57		SAME	
1486	ASMZ79C120	1- -46		494	(-80,-40)	489		SAME	
1487	ASMZ79C112(RES)	1- -47		334	(-80,-40)	337		SAME	
1488	ASMZ87C315	1- -48		1362	(-80,-40)	1352		SAME	
1489	ASMZ87C308	1- -49		1340	(-70, -1)	1290	1380	(-80,-40)	1249
1490	ASMZ87C300	1- -50		1244	(-80,-40)	1246		SAME	
1491	ASMZ87C293	1- -51		1050	(-80,-40)	1058		SAME	
1492	ASMZ87RVMF	1- -52		244	(-70, -1)	239		SAME	
1493	ASMZ87RDMF	1- -53		250	(70, 69)	253		SAME	
1494	ASMZ87RLMF	1- -54		119	(80, 40)	126		SAME	
1495	B92S7MZP(BM)	1- -55		102	(-70,-69)	63		SAME	
1496	B92S7MZS(BM)	1- -56		152	(-70,-69)	138	153	(-80,-40)	143
1497	RESISTOR	1- -57		6	(-20, 57)	-1	2	(70, 1)	-1
1498	RESISTOR	1- -58		10	(-70, -1)	6	6	(-80,-40)	10
1499	RESISTOR	1- -59	YES	0	(0, 0)	0		SAME	
1500	H92P1(D)	1- -60		16	(-20,-77)	0	1	(70, 1)	-6

TABLE B.5 (Continued)

				@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1501	B98COMMS	1-A- 1		396	(-80,-40)	389		SAME	
1502	B98COMMP	1-A- 2		170	(80, 40)	196		SAME	
1503	B98P4MMP	1-A- 3		30	(70, 69)	38	41	(80, 40)	24
1504	B98P4MMS	1-A- 4	YES	0	(0, 0)	0		SAME	
1505	B98P9MMP	1-A- 5		124	(-80,-40)	115		SAME	
1506	B98P9MMS	1-A- 6		139	(-60,-76)	115	139	(-80,-40)	106
1507	B98COMFP	1-A- 7		58	(0, 0)	0	58	(70, 69)	56
1508	B98COMFS	1-A- 8		51	(-10,-74)	6	57	(-80,-40)	-4
1509	B98P5MFP	1-A- 9		40	(0, 0)	0	33	(70, 69)	38
1510	B98P5MFS	1-A-10		66	(50, 79)	91	110	(70, 69)	78
1511	B98P6FIP	1-A-11		23	(-10, 64)	20	20	(-30, 49)	17
1512	B98COFIS	1-A-12	YES	0	(0, 0)	0		SAME	
1513	B98COFIP	1-A-13		20	(-30,-79)	-7	9	(60, 76)	-5
1514	B98P6FIS	1-A-14		29	(-80,-40)	24		SAME	
1515	B98S4MMP	1-A-15		41	(80, 40)	56		SAME	
1516	B98S4MMS	1-A-16		136	(-80,-40)	126		SAME	
1517	B98P8MMP	1-A-17		53	(70, 69)	72	73	(80, 40)	43
1518	B98S8MMS	1-A-18		137	(0, 0)	0	65	(-60,-76)	-10
1519	B98S3MFP	1-A-19		23	(-20,-77)	0	7	(-80,-40)	9
1520	B98S4MFS	1-A-20		31	(40, 80)	19	30	(80, 40)	9
1521	B98S6FIP	1-A-21		20	(0, 0)	0	8	(-70, -1)	-5
1522	B98S6FIS	1-A-22		20	(-10, 64)	14	15	(-40, 40)	11
1523	B98P 2HMRH	1-A-23		98	(-80,-40)	104		SAME	
1524	B98P 2HMRD	1-A-24		68	(80, 40)	47		SAME	
1525	B98P 2HMRV	1-A-25		26	(-20,-77)	-4	11	(-60, 16)	0
1526	B98P7IIRD	1-A-26		69	(-40, 40)	47	58	(-70, -1)	53
1527	B98P7IIRV	1-A-27		117	(40,-40)	-64	140	(-80,-40)	111
1528	B98P7IIRH	1-A-28		117	(-50, 29)	76	106	(-80,-40)	105
1529	B98P11 5FIRV	1-A-29		88	(0, 0)	0	61	(80, 40)	35
1530	B98P11 5FIRD	1-A-30		176	(80, 40)	191		SAME	
1531	B98P11 5FIRH	1-A-31		149	(-80,-40)	138	140	(-70, -1)	147
1532	B98P11 9FFRV	1-A-32		42	(10, 74)	40	41	(30, 79)	39
1533	B98P11 9FFRD	1-A-33		212	(80, 40)	206		SAME	
1534	B98P11 9FFRH	1-A-34		41	(80, 40)	44	58	(60, 76)	37
1535	B98S7IIRH	1-A-35		161	(-70,-69)	70	79	(-80,-40)	153
1536	B98S7IIRD	1-A-36		47	(-20, 57)	34	39	(-60, 16)	37
1537	B98S7IIRV	1-A-37		44	(-30,-79)	33	40	(-70,-69)	27
1538	B98S11 5FIRH	1-A-38		153	(-80,-40)	159	160	(-70,-69)	143
1539	B98S11 5FIRD	1-A-39		142	(80, 40)	136		SAME	
1540	B98S11 5FIRV	1-A-40	YES	0	(0, 0)	0	155	(-80,-40)	0
1541	B98S11 9FFRH	1-A-41		73	(-40,-80)	75	76	(-30,-79)	67
1542	B98S11 9FFRD	1-A-42		207	(80, 40)	216		SAME	
1543	B98S11 9FFRV	1-A-43		31	(0,-69)	20	21	(20,-57)	21
1544	B98S10MFS	1-A-44		124	(0,-69)	96	102	(30,-49)	103
1545	B98S10MFP	1-A-45		96	(30, 79)	77	95	(70, 69)	62
1546	H100P20P(FC)	1-A-46		376	(-50, 29)	379		SAME	
1547	ASMM77C1SF	1-A-47		634	(-70,-69)	737	822	(-80,-40)	620
1548	ASMM77C2SF	1-A-48		45	(-40,-80)	27	33	(-70,-69)	25
1549	ASMM77C3SF	1-A-49		247	(-60, 16)	191	192	(-50, 29)	213
1550	ASMM77C4SF	1-A-50		227	(-70, -1)	173	178	(-60, 16)	215
1551	ASMM77C5SF	1-A-51		428	(-80,-40)	432		SAME	
1552	ASMM77C1SA	1-A-52		287	(-60, 16)	252		SAME	
1553	ASMM77C2SA	1-A-53		258	(-50, 29)	253		SAME	
1554	ASMM77C3SA	1-A-54		77	(-80,-40)	78		SAME	
1555	ASMM77C4SA	1-A-55		397	(-30, 49)	400	404	(-40, 40)	397
1556	ASMM77C5SA	1-A-56		262	(-40, 40)	252	261	(-20, 57)	252
1557	ASMM77P3SA0 5	1-A-57		705	(-80,-40)	708		SAME	
1558	ASMM77P3SA1 5	1-A-58		465	(-80,-40)	467		SAME	
1559	ASMM77P3SA2 0	1-A-59	YES	0	(0, 0)	0		SAME	
1560	H103S19(D)	1-A-60		199	(-70, -1)	196		SAME	
1561	B108P9MFP	1-B- 1		13	(0, 69)	9	13	(-60, 16)	9
1562	B108COMMS	1-B- 2		23	(80, 40)	21		SAME	
1563	B108P4MMP	1-B- 3		45	(-80,-40)	43		SAME	
1564	B108P4MMS	1-B- 4	YES	0	(0, 0)	0		SAME	
1565	B108P8MMP	1-B- 5		23	(-70, -1)	26	26	(-80,-40)	23
1566	B108P8MMS	1-B- 6		25	(0, 0)	0	29	(-80,-40)	21
1567	RESISTOR	1-B- 7		136	(0, 0)	0	26	(40, 80)	-15
1568	B108COMFS	1-B- 8		37	(-40, 40)	19	29	(-80,-40)	22
1569	B108P4MFP	1-B- 9		32	(-50, 29)	33	37	(-70, -1)	32
1570	B108P4MFS	1-B-10		61	(80, 40)	74		SAME	
1571	RESISTOR	1-B-11		26	(0, 69)	3	4	(50, 79)	-2
1572	B108COFIS	1-B-12	YES	0	(0, 0)	0		SAME	
1573	B108P6FIP	1-B-13		18	(-10, 64)	14	16	(-50, 29)	10
1574	B108P6FIS	1-B-14		6	(60,-16)	3	4	(10, 64)	0
1575	B108S4MMP	1-B-15		51	(-80,-40)	54		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1576	B108S4MMS	1-B-16		42	(-80,-40)	38		SAME	
1577	B108S8MMP	1-B-17		31	(-80,-40)	33		SAME	
1578	B108S8MMS	1-B-18		24	(-70, -1)	18	19	(-80,-40)	22
1579	B108S4MFP	1-B-19		47	(-80,-40)	37		SAME	
1580	B108S4MFS	1-B-20		69	(80, 40)	74		SAME	
1581	B108S6FIP	1-B-21		21	(-80,-40)	26		SAME	
1582	B108S6FIS	1-B-22		31	(80, 40)	23	24	(70, 69)	25
1583	B108P 2HHRH	1-B-23		440	(-80,-40)	435		SAME	
1584	B108P 2HHRD	1-B-24		486	(-80,-40)	466		SAME	
1585	B108P 2HHRV	1-B-25	YES	0	(0, 0)	0		SAME	
1586	B108P711RV	1-B-26		45	(80, 40)	52		SAME	
1587	B108P711RD	1-B-27		43	(0,-69)	24	24	(-20,-77)	21
1588	B108P711RH	1-B-28		240	(-80,-40)	243		SAME	
1589	B108P10 5FIRV	1-B-29		126	(80, 40)	120		SAME	
1590	B108P10 5FIRD	1-B-30		267	(80, 40)	264		SAME	
1591	B108P10 5FIRH	1-B-31		70	(-80,-40)	70		SAME	
1592	B108P10 9FFRV	1-B-32		28	(-40, 40)	19	23	(0, 69)	22
1593	B108P10 9FFRD	1-B-33		212	(80, 40)	217		SAME	
1594	B108P10 9FFRH	1-B-34		12	(10,-64)	10	13	(50,-30)	12
1595	B108S711RH	1-B-35		214	(-80,-40)	215		SAME	
1596	B108S711RD	1-B-36		143	(70, 69)	36		SAME	
1597	B108S711RV	1-B-37		38	(80, 40)	42		SAME	
1598	B108S10 5FIRH	1-B-38		178	(-80,-40)	179		SAME	
1599	B108S10 5FIRD	1-B-39		183	(80, 40)	189		SAME	
1600	B108S10 5FIRV	1-B-40		216	(80, 40)	224		SAME	
1601	B108S10 9FFRH	1-B-41		83	(-50,-79)	82		SAME	
1602	B108S10 9FFRD	1-B-42		131	(0,-69)	128	130	(-10,-74)	129
1603	B108S10 9FFRV	1-B-43		123	(0,-69)	84	92	(-30,-79)	86
1604	B108P9MFS	1-B-44		53	(-80,-40)	55		SAME	
1605	APMM77C1PA	1-B-45		621	(-70,-69)	620		SAME	
1606	APMM77C2PA	1-B-46		726	(-70,-69)	731		SAME	
1607	APMM77C3PA	1-B-47		641	(-70,-69)	649		SAME	
1608	APMM77C4PA	1-B-48		792	(-80,-40)	832		SAME	
1609	APMM77C5PA	1-B-49		378	(-70,-69)	328		SAME	
1610	APMM77P3PA0 5	1-B-50		423	(-70,-69)	422		SAME	
1611	APMM77P3PA1 5	1-B-51		374	(-70,-69)	372		SAME	
1612	APMM77P3PA3 0	1-B-52		332	(-70,-69)	333		SAME	
1613	APMM77C1PF	1-B-53		482	(-80,-40)	482		SAME	
1614	APMM77C2PF	1-B-54		504	(-80,-40)	497		SAME	
1615	APMM77C3PF	1-B-55		719	(-80,-40)	734		SAME	
1616	APMM77C4PF	1-B-56		432	(-70,-69)	440		SAME	
1617	APMM77C5PF	1-B-57		775	(-80,-40)	762		SAME	
1618	ASM279C135	1-B-58		703	(-80,-40)	695		SAME	
1619	ASM279C127	1-B-59	YES	0	(0, 0)	0		SAME	
1620	H108CFF(D)	1-B-60		7	(0, 69)	1	1	(30, 79)	5
1621	M95P10W	0- - 1		143	(-80,-40)	141	141	(-70,-69)	143
1622	M95P7W	0- - 2		215	(-80,-40)	213		SAME	
1623	M95P2W	0- - 3		143	(-80,-40)	142		SAME	
1624	M95C0W	0- - 4	YES	0	(0, 0)	0		SAME	
1625	M95S2W	0- - 5		142	(-80,-40)	141		SAME	
1626	M95S4W	0- - 6		131	(-80,-40)	124		SAME	
1627	M95S6W	0- - 7		187	(-80,-40)	154		SAME	
1628	M95S8W	0- - 8		207	(-80,-40)	200		SAME	
1629	M95S10W	0- - 9		31	(60, 76)	26		SAME	
1630	M95S10 SP	0- -10		42	(-40, 40)	28	28	(-30, 49)	31
1631	M95S11W	0- -11		37	(-20, 57)	22	24	(20, 77)	9
1632	M95S11 SP	0- -12		42	(-20, 57)	32	42	(-70, -1)	23
1633	M95S12W	0- -13		40	(-20, 57)	29	29	(0, 69)	36
1634	B92P9 5P(88)	0- -14		32	(40, 80)	13	17	(70, 69)	28
1635	H95S1W	0- -15		118	(80, 40)	135		SAME	
1636	H95S4W	0- -16		107	(80, 40)	130		SAME	
1637	H95P4W	0- -17		96	(80, 40)	106		SAME	
1638	H95S5W	0- -18		106	(80, 40)	118		SAME	
1639	H95S7W	0- -19		116	(80, 40)	124		SAME	
1640	H95P7W	0- -20		91	(70, 1)	96	97	(80, 40)	91
1641	H95S9W	0- -21		90	(70, 69)	96	97	(80, 40)	88
1642	H95S11W	0- -22	YES	0	(0, 0)	0		SAME	
1643	H95P11W	0- -23		55	(70, 1)	56		SAME	
1644	H95S12W	0- -24		87	(70, 69)	92		SAME	
1645	H95S13W	0- -25		80	(70, 69)	87		SAME	
1646	H95P13W	0- -26	YES	0	(0, 0)	0		SAME	
1647	H95S15W	0- -27		46	(20, 77)	44	48	(50, 79)	41
1648	H95S16 SP	0- -28		57	(-30, 49)	47		SAME	
1649	H95P16 SP	0- -29		78	(-70,-69)	67	68	(-60,-76)	78
1650	H95S17W	0- -30		53	(-30, 49)	46	47	(-40, 40)	53

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT LAT)	MEASURED STRAIN
1651	H95S17W	O- -31		86	(-70, -1)	78		SAME	
1652	H95S19W	O- -32		122	(-80, -40)	125	130	(-70, -69)	122
1653	M80S9S(BMSU)	O- -33		112	(-70, -1)	105		SAME	
1654	B92SMM7(BMSL)	O- -34		537	(-80, -40)	499		SAME	
1655	H49COP	O- -35	YES	0	(0, 0)	0		SAME	
1656	H61COP	O- -36	YES	0	(0, 0)	0		SAME	
1657	H73COP	O- -37	YES	0	(0, 0)	0		SAME	
1658	H75COP	O- -38		451	(80, 40)	450		SAME	
1659	H77COP	O- -39	YES	0	(0, 0)	0		SAME	
1660	H79COP	O- -40		406	(80, 40)	399		SAME	
1661	H81COP	O- -41		360	(80, 40)	362		SAME	
1662	H83COP	O- -42	YES	0	(0, 0)	0		SAME	
1663	H85COP	O- -43		324	(80, 40)	325		SAME	
1664	H87COP	O- -44		252	(80, 40)	269		SAME	
1665	H91COP	O- -45		200	(80, 40)	197		SAME	
1666	H93COP	O- -46		165	(80, 40)	179		SAME	
1667	H95COP	O- -47		591	(60, -16)	377	501	(80, 40)	589
1668	H97COP	O- -48	YES	0	(0, 0)	0		SAME	
1669	H99COP	O- -49		31	(80, 40)	38		SAME	
1670	H101COP	O- -50		52	(70, 1)	45	52	(80, 40)	50
1671	H103COP	O- -51	YES	0	(0, 0)	0		SAME	
1672	H105COP	O- -52		39	(80, 40)	44		SAME	
1673	H107COP	O- -53		19	(-10, 64)	5	17	(-80, -40)	15
1674	H89COP	O- -54	YES	0	(0, 0)	0		SAME	
1675	H86SFF(C)	O- -55		154	(30, 79)	151	152	(40, 80)	146
1676	B80PMMRH	O- -56		15	(-10, -74)	2	9	(70, 1)	1
1677	B80PMMRD	O- -57		74	(70, 69)	79		SAME	
1678	B80PMMRV	O- -58	YES	187	(-80, -40)	192		SAME	
1679	B80P19@18(FC)	O- -59		288	(-70, -69)	289		SAME	
1680	H96S19(D)	O- -60	YES	31	(-30, -79)	2	4	(-70, -69)	22
1681	B92P7MMS	O-A- 1		224	(-80, -40)	218		SAME	
1682	B92P7MMP	O-A- 2		78	(-10, 64)	45	70	(-70, -1)	32
1683	B92S8MMS	O-A- 3		388	(-70, -69)	297	308	(-80, -40)	376
1684	B92S8MMP	O-A- 4	YES	0	(0, 0)	0		SAME	
1685	B86CDMMP	O-A- 5		121	(-80, -40)	123		SAME	
1686	B86COMMS	O-A- 6		137	(80, 40)	140		SAME	
1687	B86P7MMP	O-A- 7		86	(-80, -40)	100		SAME	
1688	B86P7MMS	O-A- 8		67	(80, 40)	72		SAME	
1689	B80P1MMS	O-A- 9		57	(-70, -1)	37		SAME	
1690	B80P1MMP	O-A-10		24	(30, 79)	14	17	(70, 69)	22
1691	F82P11M	O-A-11		96	(-60, -76)	89	93	(-70, -69)	69
1692	H80P17(LF)	O-A-12		120	(-50, -79)	107	113	(-70, -69)	86
1693	B86P20(C)	O-A-13		45	(30, 79)	28	30	(60, 76)	15
1694	B86P11MMRH	O-A-14		47	(30, 79)	19	24	(70, 69)	37
1695	B86P11MMRD	O-A-15		41	(30, 79)	35	44	(70, 69)	37
1696	B86P11MMRV	O-A-16		22	(30, 79)	17	17	(40, 80)	20
1697	B86P11MP(HSU)	O-A-17		41	(50, 79)	38	40	(70, 69)	37
1698	B86P11MP(HSL)	O-A-18		30	(-30, 49)	17		SAME	
1699	F86P11P(C)	O-A-19		41	(-80, -40)	26		SAME	
1700	B80P11F(P,BB)	O-A-20		76	(80, 40)	81		SAME	
1701	H80P15@14P(LF)	O-A-21		155	(0, -69)	150	152	(10, -64)	145
1702	B86P9W(C)	O-A-22	YES	0	(0, 0)	0		SAME	
1703	B86P8 SP(BB)	O-A-23		7	(-30, 49)	1	6	(-70, -69)	5
1704	I80P2P(C)	O-A-24		41	(-60, 16)	32	33	(-70, -1)	39
1705	B86S7MMP(C)	O-A-25		31	(-60, -76)	21	21	(-70, -69)	29
1706	H85 9S19P(C)	O-A-26	YES	0	(0, 0)	0		SAME	
1707	B80S9 5MFRH	O-A-27		28	(0, 0)	0	17	(-50, 29)	22
1708	B80S9 5MFRD	O-A-28		22	(-30, 49)	16	20	(-70, -1)	15
1709	B80S9 5MFRV	O-A-29		30	(80, 40)	37		SAME	
1710	B92SMM7(BMSU)	O-A-30		84	(70, 69)	81		SAME	
1711	M80S9S(SL)	O-A-31	YES	0	(0, 0)	0		SAME	
1712	H85 9S6 SP(HSU)	O-A-32		100	(0, 69)	100		SAME	
1713	H85 9S6 SP(HSL)	O-A-33		309	(80, 40)	305		SAME	
1714	M86S3S(SU)	O-A-34	YES	0	(0, 0)	0		SAME	
1715	M86S3S(SL)	O-A-35		67	(-80, -40)	69		SAME	
1716	M86 1S3 SP(HSI)	O-A-36		76	(-10, 64)	76	76	(0, 69)	72
1717	M86 1S3 SP(HSO)	O-A-37		204	(-70, -69)	189		SAME	
1718	B86S11 9MMRH	O-A-38		18	(-20, -77)	2	18	(70, 1)	10
1719	B86S11 9MMRD	O-A-39		74	(70, 69)	54	75	(70, 1)	58
1720	B86S11 9MMRV	O-A-40		48	(80, 40)	53		SAME	
1721	H86 1S17 SP(HSU)	O-A-41		581	(80, 40)	584		SAME	
1722	H86 1S17 SP(HSL)	O-A-42		572	(-80, -40)	570		SAME	
1723	H86 1S6 SP(HSU)	O-A-43		270	(80, 40)	272		SAME	
1724	H86 1S6 SP(HSL)	O-A-44		168	(-70, -1)	163		SAME	
1725	H88 5S19P(CU)	O-A-45		127	(-50, 29)	124	125	(-60, 16)	127

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
1726	H88 5S19P(CL)	O-A-46		85	(-10, 64)	88	89	(-20, 57)	85
1727	M86 1S6S(U)	O-A-47		182	(-80,-40)	173		SAME	
1728	M86 1S6S(L)	O-A-48		207	(-70, -1)	208	209	(-80,-40)	205
1729	H86 1P8.5P(HSU)	O-A-49		275	(80, 40)	283		SAME	
1730	H86 1P8 5P(HSL)	O-A-50		239	(-70,-69)	236		SAME	
1731	B92S7MZS(BM)	O-A-51		172	(-70,-69)	128	133	(-80,-40)	142
1732	B92S7MZP(BM)	O-A-52		17	(-40, 80)	6	8	(20,-57)	-10
1733	B86S3MMP(BM)	O-A-53		57	(-80,-40)	54		SAME	
1734	B86S3MMS(BM)	O-A-54		81	(80, 40)	80		SAME	
1735	B86S3MZP(BM)	O-A-55		7	(30, 79)	3	4	(60, 76)	
1736	B86S3MZS(BM)	O-A-56		56	(-80,-40)	60		SAME	
1737	B80S9MMS(BM)	O-A-57		42	(-60,-76)	31	35	(-80,-40)	40
1738	B80S9MMP(BM)	O-A-58	YES	215	(70, 69)	138	141	(80, 40)	209
1739	B80S9MZS(BM)	O-A-59		52	(80, 40)	54		SAME	
1740	W89P2MZ(D)	O-A-60		37	(70, 69)	41	47	(80, 40)	33
1741	H78S20P(CU)	O-B- 1		173	(-30, 49)	171	174	(-40, 40)	173
1742	H79S20P(CL)	O-B- 2		172	(-30, 49)	171	173	(-40, 40)	170
1743	B80S11MMP(C)	O-B- 3		38	(-80,-40)	36		SAME	
1744	M80S11P(C)	O-B- 4	YES	0	(0, 0)	0		SAME	
1745	H79 5S20P(FC)	O-B- 5		159	(-70,-69)	150		SAME	
1746	H79 5S20P(AC)	O-B- 6		96	(-70,-69)	91		SAME	
1747	H79 5S20P(ACL)	O-B- 7		83	(-70,-69)	81		SAME	
1748	B64COMMP(C)	O-B- 8		30	(-40,-80)	15	21	(-80,-40)	8
1749	B56S8 SMFRV(BB)	O-B- 9		54	(0, 0)	0	5	(50,-30)	10
1750	B56S8 SMFRD(BB)	O-B-10		41	(0, 0)	0	30	(-70, -1)	39
1751	B56S8 SMFRH (BB)	O-B-11		36	(10,-64)	13	16	(-50,-79)	13
1752	B56P8 SMFRV(BB)	O-B-12		74	(0,-69)	35	37	(-20,-77)	40
1753	B56P8 SMFRD(BB)	O-B-13		84	(-30,-79)	60	74	(-70,-69)	56
1754	B56P8 SMFRH(BB)	O-B-14		71	(-40,-80)	34	37	(-70,-69)	7
1755	M64P8S(SUA)	O-B-15		88	(0,-69)	45	66	(60,-16)	48
1756	M64P8S(SLA)	O-B-16		66	(-70,-69)	66		SAME	
1757	M64P8S(SUF)	O-B-17		50	(-10,-74)	23	33	(-60,-76)	27
1758	M64P8S(SLF)	O-B-18	YES	149	(-80,-40)	124		SAME	
1759	B64P11F1P(CU)	O-B-19		28	(70, 1)	30	38	(80, 40)	20
1760	B64P11F1P(CL)	O-B-20		90	(70, 1)	94	105	(80, 40)	86
1761	H61 2S20P(CM)	O-B-21		337	(-60, 16)	321		SAME	
1762	H61 2S20P(CL)	O-B-22	YES	0	(0, 0)	0		SAME	
1763	M60P9 5P(C)	O-B-23		391	(-70,-69)	382		SAME	
1764	H58 6P20P(C)	O-B-24		419	(-70,-69)	424		SAME	
1765	H61 3P20P(C)	O-B-25		401	(-60,-76)	402	405	(-70,-69)	399
1766	H56 6P20P(CU)	O-B-26	YES	0	(0, 0)	0		SAME	
1767	H58 6P20P(CL)	O-B-27		408	(-70,-69)	410		SAME	
1768	M59 5P6P(C)	O-B-28		34	(-80,-40)	25		SAME	
1769	B80S9MZP(BM)	O-B-29		16	(70, 1)	17	18	(80, 40)	18
1770	B64P8MMP(BM)	O-B-30		79	(10,-64)	26	30	(-30,-79)	61
1771	M74S5P(C)	O-B-31		256	(-70, -1)	252		SAME	
1772	M73S5P(C)	O-B-32		268	(-70, -1)	265		SAME	
1773	M67S5P(C)	O-B-33		359	(-80,-40)	360		SAME	
1774	M67P5P(UC)	O-B-34		366	(-80,-40)	364		SAME	
1775	M67 2P5P(UC)	O-B-35		389	(-80,-40)	390		SAME	
1776	M69P5P(LP)	O-B-36		72	(70, 69)	71		SAME	
1777	M60P6P(L)	O-B-37		416	(-80,-40)	417		SAME	
1778	H94S20P(FC)	O-B-38		33	(-40,-80)	21	21	(-60,-76)	31
1779	M77P10 1P	O-B-39		470	(-70,-69)	474		SAME	
1780	H94S20P(AC)	O-B-40		29	(70, 1)	29		SAME	
1781	H94S16 5P(CU)	O-B-41		20	(-10,-74)	4	4	(0,-69)	6
1782	H94S16 5P(CL)	O-B-42		39	(-60,-76)	34	36	(-70,-69)	37
1783	H91P19P(C)	O-B-43		19	(-20, 57)	13	15	(20, 77)	11
1784	M79S8 5P	O-B-44		162	(-40, 40)	153	155	(-50, 29)	162
1785	B86P911P	O-B-45		59	(-80,-40)	66		SAME	
1786	H91P19P(AC)	O-B-46		53	(70, 69)	61		SAME	
1787	H91P19P(FC)	O-B-47		37	(-30,-79)	23		SAME	
1788	H97 9P14P(LF)	O-B-48		72	(-20, 57)	14	46	(70, 69)	34
1789	H101P20P(AC)	O-B-49		78	(-80,-40)	78		SAME	
1790	H80P19@18(FC)	O-B-50		314	(-70,-69)	312		SAME	
1791	H79 5P18P(CU)	O-B-51		201	(-60,-76)	195	197	(-50,-79)	201
1792	H79 5P18P(CL)	O-B-52		215	(-60,-76)	207		SAME	
1793	M63 9P13S(C)	O-B-53		325	(-80,-40)	334		SAME	
1794	H79 9P15P(C)	O-B-54		165	(-30,-79)	150		SAME	
1795	B64P12 9P(LP)	O-B-55		158	(-70,-69)	145		SAME	
1796	B64P12 9P(SC)	O-B-56		53	(70, 1)	50	64	(80, 40)	53
1797	H65P22P(C)	O-B-57		63	(70, 1)	48	74	(70, 69)	55
1798	B64P 1MMP(C)	O-B-58	YES	96	(-80,-40)	94		SAME	
1799	B64S 1MMP(C)	O-B-59		40	(-10,-74)	21	25	(-50,-79)	21
1800	B108P1MMP(D)	O-B-60	YES	16	(-20,-77)	3	3	(-50,-79)	8

TABLE B.6 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 240 DEGREE LAG

				@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1	B8COMMP	9- -1		58	(80,-40)	53		SAME	
2	B8P4MMP	9- -2		75	(50, 30)	35	40	(70,-1)	30
3	B8P7MMP	9- -3		134	(40, 40)	5	9	(-40, 80)	-43
4	B8COMFP	9- -4		0	(0, 0)	0	72	(-40, 80)	0
5	B8P2MFP	9- -5		82	(-70, 69)	69		SAME	
6	B8S4MFP	9- -6		224	(0, 0)	0	68	(80, 40)	126
7	B8S7MMP	9- -7		16	(50,-79)	18	20	(70,-69)	14
8	B8S2MFP	9- -8		49	(-60,-16)	37	37	(-50,-29)	47
9	B8COHHRH	9- -9	YES	0	(0, 0)	0	23	(-80, 40)	0
10	B8COHHRD	9- -10		293	(-80, 40)	313		SAME	
11	B8COHHRV	9- -11		31	(80,-40)	37		SAME	
12	B8P111RV	9- -12	YES	0	(0, 0)	0	0	(-80, 40)	0
13	B8P111RD	9- -13		194	(80,-40)	237		SAME	
14	B8P111RH	9- -14		33	(-80, 40)	12	14	(-60,-16)	25
15	B8P5FFRV	9- -15		149	(-10, 74)	128	125	(0, 69)	116
16	B8P5FFRD	9- -16		101	(60, 16)	107	109	(70, 1)	64
17	B8P5FFRH	9- -17	YES	126	(-70, 1)	107	108	(-60, 16)	112
18	B8S111RH	9- -18	YES	71	(-80, 40)	65		SAME	
19	B8S111RD	9- -19	YES	0	(0, 0)	0		SAME	
20	B8S111RV	9- -20		39	(-10, 74)	14	29	(70, 1)	27
21	B8S5FFRH	9- -21		229	(-60, 76)	136	142	(-70, 69)	155
22	B8S5FFRD	9- -22		419	(70,-1)	117	208	(70,-69)	227
23	B8S5FFRV	9- -23		252	(40,-80)	263		SAME	
24	B8COMMS	9- -24		227	(-80, 40)	217		SAME	
25	B8P4MMS	9- -25	YES	0	(0, 0)	0		SAME	
26	B8P7MMS	9- -26		93	(-80, 40)	87		SAME	
27	B8COMFS	9- -27		10	(0, 0)	0	1	(-60, 76)	2
28	B8P2MFS	9- -28		27	(50,-79)	15	16	(60,-76)	21
29	B8S4MMS	9- -29		176	(-80, 40)	172		SAME	
30	B8S7MMS	9- -30	YES	0	(0, 0)	0		SAME	
31	B8S2MFS	9- -31		16	(-80, 40)	10	10	(-70, 69)	16
32	M9COS	9- -32		30	(-80, 40)	21	22	(-70, 1)	24
33	M9P11P	9- -33		30	(80,-40)	34		SAME	
34	M9S11P	9- -34		25	(70,-1)	28	29	(80,-40)	25
35	M11COS	9- -35	YES	0	(0, 0)	0		SAME	
36	M11S11P	9- -36		30	(0, 69)	12	16	(50, 30)	12
37	M13COS	9- -37		52	(-80, 40)	48		SAME	
38	M13P12P	9- -38	YES	0	(0, 0)	0		SAME	
39	M13S12P	9- -39		42	(-60, 76)	32		SAME	
40	M15COS	9- -40		72	(-80, 40)	73		SAME	
41	M15S13P	9- -41		76	(-70, 69)	68	71	(-80, 40)	72
42	M17COS	9- -42		87	(-80, 40)	82		SAME	
43	M17P13P	9- -43		28	(-60,-16)	28	28	(-50,-29)	26
44	M17S13P	9- -44		61	(-60, 76)	52	52	(-70, 69)	57
45	M19COS	9- -45		114	(-80, 40)	110		SAME	
46	M19S13P	9- -46		90	(-60, 76)	81	81	(-50, 79)	86
47	M23COS	9- -47		116	(-80, 40)	115		SAME	
48	M23S13 7P	9- -48		209	(-70, 69)	203		SAME	
49	M25P13P	9- -49		128	(-50,-29)	125	127	(-60,-16)	128
50	M25S13P	9- -50		213	(-70, 69)	210		SAME	
51	M27COS	9- -51		198	(0, 69)	4	103	(-80, 40)	113
52	M27S14P	9- -52		260	(-70, 69)	265		SAME	
53	M29COS	9- -53	YES	0	(0, 0)	0		SAME	
54	M29P14P	9- -54	YES	0	(0, 0)	0		SAME	
55	M29S14P	9- -55		304	(-70, 69)	294		SAME	
56	M31COS	9- -56		264	(-80, 40)	257		SAME	
57	M31S14P	9- -57		392	(-70, 69)	388		SAME	
58	H24 1S20P(C)	9- -58		242	(-70, 69)	231		SAME	
59	F9S4P(C)	9- -59		94	(-60, 76)	79		SAME	
60	H36P18 S(D)	9- -60		15	(-10, 74)	-1	1	(70,-69)	-6
61	B16COMMP	9-A- 1		123	(80,-40)	135		SAME	
62	B16COMMS	9-A- 2		372	(-70, 1)	190	216	(-80, 40)	244
63	B16P4MMP	9-A- 3		120	(70,-1)	137	141	(80,-40)	107
64	B16P4MMS	9-A- 4	YES	0	(0, 0)	0	6	(80,-40)	0
65	B16P8MMP	9-A- 5		178	(70,-1)	141	150	(80,-40)	96
66	B16P8MMS	9-A- 6		42	(0, 69)	50	57	(-40, 80)	-24
67	B16COMFP	9-A- 7		46	(50,-79)	37	61	(80,-40)	40
68	B16COMFS	9-A- 8		52	(70,-1)	72	84	(80,-40)	52
69	B16P3MFP	9-A- 9		138	(-10, 74)	47	62	(-60, 76)	64
70	B16P3MFS	9-A-10		174	(60,-76)	148	206	(80,-40)	160
71	B16COF1P	9-A-11		58	(40,-80)	39	45	(80,-40)	47
72	B16COF1S	9-A-12	YES	0	(0, 69)	0	0	(30, 49)	0
73	B16P2F1P	9-A-13		82	(60, 16)	80	96	(80,-40)	60
74	B16P2F1S	9-A-14		45	(0, 0)	0	20	(-80, 40)	18
75	B16S4MMP	9-A-15		90	(80,-40)	117		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
76	B16S4MMS	9-A-16		143	(-80, 40)	115		SAME	
77	B16S8MMP	9-A-17	YES	123	(80, -40)	142		SAME	
78	B16S8MMS	9-A-18	YES	64	(10, -74)	36		SAME	
79	B16S3MFP	9-A-19	YES	0	(0, 0)	0	4	(-80, 40)	0
80	B16S3MFS	9-A-20		141	(30, 49)	51	201	(80, 40)	115
81	B16S2FIP	9-A-21		119	(70, -69)	120	132	(80, -40)	85
82	B16S2FIS	9-A-22		96	(-70, 1)	86	89	(-80, 40)	96
83	B16COMHRH	9-A-23		54	(20, 77)	20	24	(-20, -57)	34
84	B16COMHRD	9-A-24		56	(-50, 74)	48	62	(-80, 40)	30
85	B16COMHRV	9-A-25	YES	0	(0, 0)	0	7	(80, -40)	0
86	B16P311RV	9-A-26		98	(40, -40)	60	92	(80, -40)	45
87	B16P311RD	9-A-27		107	(70, [illegible])	103	122	(80, -40)	95
88	B16P311RH	9-A-28		204	(-80, 40)	181		SAME	
89	B16P7 SFFRV	9-A-29		563	(80, -40)	602		SAME	
90	B16P7 SFFRD	9-A-30	YES	0	(0, 0)	0	4	(80, 40)	0
91	B16P7 SFFRH	9-A-31		332	(-80, 40)	330		SAME	
92	B16S311RH	9-A-32		154	(-70, 1)	131	133	(-80, 40)	148
93	B16S311RD	9-A-33		188	(70, -69)	121	157	(80, -40)	167
94	B16S311RV	9-A-34		192	(70, -69)	157	176	(80, -40)	152
95	B16S7 SFFRH	9-A-35		284	(-80, 40)	0	9	(0, -69)	115
96	B16S7 SFFRD	9-A-36		268	(80, -40)	340		SAME	
97	B16S7 SFFRV	9-A-37		462	(80, -40)	575		SAME	
98	F9CONA	9-A-38		39	(-40, 80)	27	38	(-80, 40)	20
99	F13CONA	9-A-39		26	(-80, 40)	23		SAME	
100	I17COP	9-A-40		169	(80, -40)	174		SAME	
101	I21 3COP	9-A-41		117	(70, -69)	126	143	(80, -40)	113
102	F25CONA	9-A-42		30	(-50, 79)	17	22	(-80, 40)	28
103	F29CONA	9-A-43		37	(-40, 80)	21	33	(-80, 40)	34
104	I9COP	9-A-44	YES	0	(0, 0)	0	3	(-80, 40)	0
105	I13COP	9-A-45		23	(60, -76)	29	33	(80, -40)	19
106	F17CONA	9-A-46		20	(-50, 79)	5	9	(-80, 40)	12
107	F21 3CONA	9-A-47		44	(-10, 74)	7	25	(-80, 40)	16
108	H9COP	9-A-48		75	(0, 0)	0	58	(80, -40)	20
109	H11COP	9-A-49		86	(70, -69)	44	52	(80, -40)	47
110	H13COP	9-A-50	YES	0	(0, 0)	0	5	(-80, 40)	0
111	H15COP	9-A-51		70	(-20, 77)	3	4	(-60, 76)	3
112	H17COP	9-A-52		215	(50, 30)	8	9	(70, 1)	5
113	H19COP	9-A-53	YES	0	(0, 0)	0	8	(80, -40)	0
114	H23COP	9-A-54		153	(80, -40)	152		SAME	
115	H25COP	9-A-55		187	(80, -40)	197		SAME	
116	H27COP	9-A-56		286	(80, -40)	298		SAME	
117	H29COP	9-A-57		351	(80, -40)	358		SAME	
118	H31COP	9-A-58		416	(80, -40)	428		SAME	
119	H47COP	9-A-59		543	(80, -40)	558		SAME	
120	H1259 SID)	9-A-60		12	(-20, 77)	0	2	(-70, 1)	6
121	B24COMMP	9-B-1		77	(80, -40)	87		SAME	
122	B24COMMS	9-B-2		406	(-60, 76)	192	242	(-80, 40)	143
123	B24S4MMP	9-B-3		39	(60, -76)	37	41	(80, -40)	21
124	B24P4MMS	9-B-4	YES	0	(0, 0)	0		SAME	
125	B24S7MMP	9-B-5		20	(80, -40)	32		SAME	
126	B24P7MMS	9-B-6		70	(-20, 77)	80	103	(-60, 76)	40
127	B24COMFP	9-B-7		29	(80, -40)	36		SAME	
128	B24COMFS	9-B-8		24	(0, 0)	0	13	(-70, 69)	14
129	B24S4MFP	9-B-9		31	(0, 0)	0	16	(50, -79)	5
130	B24P5MFS	9-B-10		83	(40, 40)	77	103	(70, 1)	81
131	B24COFIP	9-B-11		27	(80, -40)	45		SAME	
132	B24COFIS	9-B-12	YES	0	(0, 0)	0	0	(80, -40)	0
133	B24S3FIP	9-B-13		55	(60, -76)	42	45	(70, 69)	53
134	B24P3FIS	9-B-14		44	(0, 0)	0	52	(-70, 69)	31
135	B24P4MMP	9-B-15		60	(70, -1)	56	57	(80, -40)	47
136	B24S4MMS	9-B-16		126	(-70, 1)	119		SAME	
137	B24P7MMP	9-B-17	YES	77	(80, -40)	76		SAME	
138	B24S7MMS	9-B-18	YES	85	(-20, -57)	38	38	(-30, -49)	79
139	B24P5MFP	9-B-19	YES	0	(0, 0)	0		SAME	
140	B24S4MFS	9-B-20		52	(50, -79)	35	48	(80, -40)	34
141	B24P3FIP	9-B-21		49	(80, 30)	50	62	(80, -40)	35
142	B24S3FIS	9-B-22		38	(-70, 1)	30		SAME	
143	B24COMHRH	9-B-23		155	(-80, 40)	178		SAME	
144	B24COMHRD	9-B-24		84	(-80, 40)	83		SAME	
145	B24COMHRV	9-B-25	YES	0	(0, 0)	0		SAME	
146	B24P411RH	9-B-26		308	(-80, 40)	319		SAME	
147	B24P411RD	9-B-27		102	(-80, 40)	107		SAME	
148	B24P411RV	9-B-28		71	(70, -1)	82	89	(80, -40)	61
149	B24P9FFRV	9-B-29		260	(70, -1)	283		SAME	
150	B24P9FFRD	9-B-30	YES	0	(0, 0)	0		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT LAT)	MEASURED STRAIN
151	B24P9FFRH	9-B-31		208	(-80, 40)	193		SAME	
152	B24S4IIRH	9-B-32		279	(-70, 1)	246	252	(-80, 40)	251
153	B24S4IIRD	9-B-33		75	(-70, 1)	-1	31	(40, -80)	-9
154	B24S4IIRV	9-B-34		61	(60, -76)	59	70	(80, -40)	49
155	B24S9FFRH	9-B-35		157	(-80, 40)	124		SAME	
156	B24S9FFRD	9-B-36		108	(60, -76)	98	106	(70, -69)	84
157	B24S9FFRV	9-B-37		184	(80, -40)	221		SAME	
158	I25COP	9-B-38		270	(80, -40)	277		SAME	
159	I29COP	9-B-39		232	(80, -40)	233		SAME	
160	E32CC IMZP(C)	9-B-40		205	(-80, 40)	197		SAME	
161	M31 9COP(C)	9-B-41		455	(-80, 40)	455		SAME	
162	M22 SS9 SP(C)	9-B-42		233	(-80, 40)	243		SAME	
163	M23P 3P(C)	9-B-43		134	(-80, 40)	135		SAME	
164	M22 SP 3P(C)	9-B-44		147	(-80, 40)	140		SAME	
165	M12 SP 4P(C)	9-B-45		51	(-80, 40)	37		SAME	
166	M12 SP 5P(C)	9-B-46		44	(-80, 40)	37		SAME	
167	M12 SP4P(C)	9-B-47		60	(-70, 1)	48	45	(-80, 40)	60
168	B24P11 6P(SC	9-B-48		77	(80, -40)	85	90	(70, -1)	77
169	H23 9S8 SP(HSL)	9-B-49		269	(-70, 69)	276		SAME	
170	H23 9S8 SP(HSU)	9-B-50		317	(80, -40)	320		SAME	
171	H23 9P8 SP(HSL)	9-B-51		217	(-80, 40)	209		SAME	
172	H23 9P8 SP(HSU)	9-B-52		253	(80, -40)	251		SAME	
173	M60S9P(C)	9-B-53	YES	0	(0, 0)	0		SAME	
174	M48 1P8P(C)	9-B-54		252	(-70, 1)	233		SAME	
175	B48S5MMS(BM)	9-B-55		50	(0, 69)	18	42	(70, -1)	19
176	B48S 4ZP(BM)	9-B-56		101	(-30, 79)	73	131	(-80, 40)	76
177	B48S5MZS(BM)	9-B-57		82	(-10, 76)	28	93	(-80, 40)	16
178	B48S5 1MZP(BM)	9-B-58		56	(-20, 77)	24	49	(-80, 40)	25
179	M49 SS9P(IF)	9-B-59		366	(-70, 69)	109	128	(-40, 80)	250
180	H28P17 5(D)	9-B-60		7	(0, -69)	0	0	(70, -1)	-4
181	B40CCTTP	8- -1	YES		(0, 0)	0	1	(-40, 80)	1
182	B40COTTS	8- -2	YES	2	(10, 64)	0	1	(70, -69)	2
183	B40P4TTP	8- -3	YES	0	(0, 0)	0	0	(0, -69)	0
184	B40P4TTS	8- -4	YES	1	(0, 0)	0	0	(70, -1)	1
185	B40P8TTP	8- -5	YES	0	(0, 0)	0	0	(80, -40)	0
186	B40P8TTS	8- -6	YES	0	(0, 0)	0	0	(80, -40)	0
187	B40CCZTP	8- -7	YES	2	(0, 69)	0	0	(70, -69)	2
188	B40COZTS	8- -8	YES	1	(0, 0)	0		SAME	
189	B40P4ZTP	8- -9	YES	0	(0, 0)	0	0	(-80, 40)	0
190	B40P4ZTS	8- -10	YES	2	(10, 64)	0	0	(-70, 69)	0
191	B40P8ZTP	8- -11	YES	10	(0, 69)	0	0	(-60, 76)	-4
192	B40P8ZTS	8- -12	YES	0	(0, 0)	0	1	(-70, 1)	0
193	B40COMZP	8- -13	YES	0	(0, 0)	0	0	(80, -40)	0
194	B40COMZS	8- -14	YES	0	(0, 0)	0	0	(-70, 69)	0
195	B40COMFP	8- -15	YES	4	(0, 69)	1	1	(-60, 76)	-3
196	B40COMFS	8- -16	YES	1	(0, 0)	0	1	(-80, 40)	1
197	B40P7MFP	8- -17	YES	0	(0, 0)	0	0	(80, -40)	0
198	B40P7MFS	8- -18	YES	1	(0, 0)	0	1	(-80, 40)	-1
199	B40COFIP	8- -19	YES	0	(0, 0)	0		SAME	
200	B40COFIS	8- -20	YES	2	(-80, 40)	0	0	(70, -1)	0
201	B40P6FIP	8- -21	YES	2	(20, 57)	0	0	(40, 40)	0
202	B40P6FIS	8- -22	YES	0	(0, 0)	0	0	(-50, 79)	0
203	B40S4TTP	8- -23	YES	2	(20, 57)	0	0	(-80, 40)	0
204	B40S4TTS	8- -24	YES	0	(0, 0)	0		SAME	
205	B40S8TTP	8- -25	YES	0	(0, 0)	0		SAME	
206	B40S8TTS	8- -26	YES	0	(0, 0)	0	0	(-80, 40)	0
207	B40S4ZTP	8- -27	YES	0	(0, 0)	0		SAME	
208	B40S4ZTS	8- -28	YES	2	(30, 49)	0	0	(40, 40)	0
209	B40S8ZTP	8- -29	YES	0	(0, 0)	0	0	(70, -69)	0
210	B40S8ZTS	8- -30	YES	2	(20, 57)	0	0	(80, -40)	0
211	B40S4MFP	8- -31	YES	2	(70, -1)	0	0	(80, -40)	0
212	B40S4MFS	8- -32	YES	0	(0, 0)	0		SAME	
213	B40S6FIP	8- -33	YES	0	(0, 0)	0	0	(-50, 79)	-2
214	B40S6FIS	8- -34	YES	1	(0, 0)	0	1	(80, -40)	1
215	B40COHHRH	8- -35	YES	2	(50, -79)	0	0	(-80, 40)	0
216	B40COHHRD	8- -36	YES	1	(20, 57)	0	0	(80, -40)	-1
217	B40COHHRV	8- -37	YES	0	(0, 0)	0	1	(70, -69)	0
218	B40P6IIRH	8- -38	YES	0	(0, 0)	0	0	(70, -1)	0
219	B40P6IIRD	8- -39	YES	2	(20, 57)	0	0	(-20, 77)	2
220	B40P6IIRV	8- -40	YES	1	(50, 30)	0	1	(-80, 40)	1
221	B40P9FIRV	8- -41	YES	0	(0, 0)	0	0	(30, 49)	0
222	B40P9FIRD	8- -42	YES	0	(0, 0)	0	0	(-80, 40)	0
223	B40P9FIRH	8- -43	YES	2	(0, 0)	0	0	(80, -40)	0
224	B40P12FFRV	8- -44	YES	0	(0, 0)	0	0	(70, -1)	0
225	B40P12FFRD	8- -45	YES	1	(0, 0)	0	1	(80, -40)	1

TABLE B.6 (Continued)

				@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	MEASURED MAXIMUM	@ MOMENT (VERT LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT LAT)	MEASURED STRAIN
226	B40P12FFRH	8- -46	YES	2	(-10, -64)	0	0	(-80, 40)	0
227	B40S6IIRV	8- -47	YES	0	(0, 0)	0	0	(-80, 40)	0
228	B40S6IIRD	8- -48	YES	0	(0, 0)	0	0	(-30, -49)	0
229	B40S6IIRH	8- -49	YES	0	(0, 0)	0	0	(-80, 40)	0
230	B40S9FIRH	8- -50	YES	0	(0, 0)	0	0	(80, -40)	0
231	B40S9FIRD	8- -51	YES	0	(0, 0)	0	1	(-70, 69)	0
232	B40S9FIRV	8- -52	YES	0	(0, [illegible])	0		SAME	
233	B40S12FFRH	8- -53	YES	1	(0, [illegible])	0	0	(80, -40)	[illegible]
234	B40S12FFRD	8- -54	YES	0	(0, [illegible])	0	0	(60, 76)	0
235	B40S12FFRV	8- -55	YES	0	(0, [illegible])	0		SAME	
236	B48COMMP	8- -56	YES	2	(20, [illegible])	0	1	(70, -1)	2
237	B48S8 4MFRV	8- -57	YES	2	(-40, 4[illegible])	0	0	(-80, 40)	0
238	B48S8 4MFRD	8- -58	YES	2	(20, 57)	0	0	(70, 69)	0
239	B48S8 4MFRH	8- -59	YES	0	(0, 0)	0		(70, -69)	0
240	W46P22T(C)	8- -60	YES	0	(0, 0)	0	0	(-80, 40)	0
241	B48COTTP	8-A-1	YES	1	(0, 0)	0	0	(0, 69)	-1
242	B48COTTS	8-A-2	YES	1	(0, 0)	0	1	(60, -40)	[illegible]
243	B48P4TTP	8-A-3	YES	0	(0, 0)	0	0	(80, -40)	0
244	B48P4TTS	8-A-4	YES	1	(0, 0)	0	1	(-80, 40)	-1
245	B48P8TTP	8-A-5	YES	0	(0, 0)	0	0	(-50, 79)	0
246	B48P8TTS	8-A-6	YES	0	(0, 0)	0	1	(-80, 40)	0
247	B48CO2TP	8-A-7	YES	2	(-40, -4[illegible])	0	0	(-60, 40)	0
248	B48CO2TS	8-A-8	YES	0	(0, 0)	0	0	(-80, 40)	0
249	B48P42TP	8-A-9	YES	0	(0, 0)	0	0	(-80, 40)	0
250	B48P42TS	8-A-10	YES	0	(0, 0)	0	1	(-70, 65)	0
251	B48P82TP	8-A-11	YES	0	(0, 0)	0	0	(-60, 16)	0
252	B48P82TS	8-A-12	YES	1	(0, 0)	0	0	(-80, 40)	-1
253	B48COM2P	8-A-13	YES	0	(0, 0)	0	0	(60, 16)	0
254	B48COM2S	8-A-14	YES	0	(0, 0)	0	0	(-60, 76)	0
255	B48COMFP	8-A-15	YES	0	(0, 0)	0	0	(-80, 40)	0
256	B48COMFS	8-A-16	YES	[illegible]	(0, 0)	0	0	(-80, 40)	1
257	B48P6MFP	8-A-17	YES	0	(0, 0)	0	0	(80, -40)	0
258	B48P6MFS	8-A-18	YES	0	(0, 0)	0	0	(-60, 40)	0
259	B48COFIP	8-A-19	YES	0	(0, 0)	0		SAME	
260	B48COFIS	8-A-20	YES	2	(10, 64)	0	0	(20, 57)	0
261	B48P6FIP	8-A-21	YES	2	(70, -1)	0	0	(80, -40)	0
262	B48P6FIS	8-A-22	YES	0	(0, 0)	0	0	(-50, -29)	0
263	B48S4TTP	8-A-23	YES	2	(-70, 1)	0		SAME	
264	B48S4TTS	8-A-24	YES	0	(0, 0)	0		SAME	
265	B48S8TTP	8-A-25	YES	0	(0, 0)	0		SAME	
266	B48S8TTS	8-A-26	YES	0	(0, 0)	0	0	(-80, 40)	0
267	B48S42TP	8-A-27	YES	0	(0, 0)	0		SAME	
268	B48S42TS	8-A-28	YES	0	(0, 0)	0	0	(40, 40)	-2
269	B48S82TP	8-A-29	YES	1	(10, 64)	0	0	(0, 0)	-1
270	B48S82TS	8-A-30	YES	2	(70, -1)	0	0	(-80, 40)	0
271	B48S6MFP	8-A-31	YES	0	(0, 0)	0	0	(-40, -40)	0
272	B48S6MFS	8-A-32	YES	0	(0, 0)	0		SAME	
273	B48S6FIP	8-A-33	YES	0	(0, 0)	0	1	(-80, 40)	0
274	B48S6FIS	8-A-34	YES	1	(30, 49)	0	0	(50, 30)	-1
275	B48COHHRH	8-A-35	YES	1	(0, 69)	0	1	(-70, 1)	1
276	B48COHHRD	8-A-36	YES	2	(30, 49)	0	0	(10, -74)	0
277	B48COHHRV	8-A-37	YES	0	(0, 0)	0	0	(20, 57)	0
278	B48P7IIRV	8-A-38	YES	0	(0, 0)	0	0	(-70, 69)	0
279	B48P7IIRD	8-A-39	YES	2	(-10, 74)	0	0	(60, 16)	0
280	B48P7IIRH	8-A-40	YES	0	(0, 0)	0	0	(-50, 79)	0
281	B48P10FIRV	8-A-41	YES	0	(0, 0)	0	0	(40, 40)	0
282	B48P10FIRD	8-A-42	YES	0	(0, 0)	0	0	(80, -40)	0
283	B48P10FIRH	8-A-43	YES	0	(0, 0)	0	0	(80, -40)	0
284	B48P12FFRV	8-A-44	YES	0	(0, 0)	0	0	(70, -69)	0
285	B48P12FFRD	8-A-45	YES	1	(10, 64)	0	0	(-80, 40)	1
286	B48P12FFRH	8-A-46	YES	2	(-20, -57)	0	0	(-80, 40)	0
287	B48S7IIRH	8-A-47	YES	0	(0, 0)	0	0	(-80, 40)	0
288	B48S7IIRD	8-A-48	YES	0	(0, 0)	0	0	(10, 74)	0
289	B48S7IIRV	8-A-49	YES	0	(0, 0)	0	0	(80, -40)	0
290	B48S10FIRH	8-A-50	YES	1	(0, 69)	0	1	(-80, 40)	-1
291	B48S10FIRD	8-A-51	YES	0	(0, 0)	0	0	(-80, 40)	0
292	B48S10FIRV	8-A-52	YES	0	(0, 0)	0		SAME	
293	B48S12IIRH	8-A-53	YES	0	(0, 0)	0	0	(60, -76)	0
294	B48S12IIRD	8-A-54	YES	1	(0, 0)	0	1	(80, -40)	1
295	B48S12IIRV	8-A-55	YES	0	(0, 0)	0		SAME	
296	H48 1S20P(C)	8-A-56	YES	3	(40, -80)	-1	3	(-80, 40)	3
297	B48S13MMS(C)	8-A-57	YES	0	(0, 0)	0	0	(-80, 40)	0
298	B56S9IIP(C)	8-A-58	YES	2	(0, 0)	0	0	(-80, 40)	0
299	B56P4MMS(C)	8-A-59	YES	5	(0, 0)	0	0	(60, 16)	3
300	B40PIIDK)	8-A-60	YES	0	(0, 0)	0	0	(80, -40)	0

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
301	M30 4P10W	8-B- 1	YES	1	(10, 64)	0	1	(-80, 40)	1
302	M30 4P10 SP	8-B- 2	YES	2	(20, 57)	0	0	(80,-40)	0
303	M30 4P11W	8-B- 3	YES	0	(0, 0)	0	1	(-70, 69)	0
304	M30 4P11 SP	8-B- 4	YES	0	(0, 0)	0	0	(50,-79)	0
305	M30 4P12W	8-B- 5	YES	0	(0, 0)	0	0	(40, 40)	0
306	M30 4P13W	8-B- 6	YES	2	(-30, 79)	0	0	(-50, 79)	0
307	M31 2P10W	8-B- 7	YES	2	(20, 57)	0	0	(80,-40)	0
308	M31 2P10 SPRL	8-B- 8	YES	2	(-10,-64)	0	0	(-80, 40)	0
309	M31 2P10 SPRD	8-B- 9	YES	0	(0, 0)	0	0	(20, 57)	0
310	M31 2P10 SPRH	8-B-10	YES	2	(30, 49)	0	0	(50, 30)	0
311	M31 2P11W	8-B-11	YES	0	(0, 0)	0	0	(50, 30)	0
312	M31 2P11 SP	8-B-12	YES	0	(0, 0)	0	0	(60,-76)	0
313	M31 2P12W	8-B-13	YES	1	(0, 0)	0	0	(-60, 76)	-1
314	M31 2P13W	8-B-14	YES	0	(0, 0)	0	0	(80,-40)	0
315	M31 2P14W	8-B-15	YES	0	(0, 0)	0	0	(80,-60)	0
316	B40P8MMRH(BB)	8-B-16	YES	4	(30, 49)	0	0	(60, 76)	2
317	B32P10MMP	8-B-17	YES	0	(0, 0)	0	0	(80, 40)	0
318	B40P8MMRD(BB)	8-B-18	YES	1	(0, 0)	0	1	(-80, 40)	-1
319	B32P10 SMMP	8-B-19	YES	0	(0, 0)	0		SAME	
320	B40P8MMRV(BB)	8-B-20	YES	2	(-70, [illegible])	0		SAME	
321	M31 8P11 2PRH	8-B-21	YES	2	(0, 0)	0	0	(80,-40)	0
322	M31 8P11 2PRD	8-B-22	YES	2	(20, 57)	0	0	(50, 79)	0
323	M31 8P11 2PRL	8-B-23	YES	2	(-50, 79)	0	0	(-70, 69)	0
324	M31 8P11 SP	8-B-24	YES	0	(0, 0)	0		SAME	
325	M31 8P12W	8-B-25	YES	0	(0, 0)	0		SAME	
326	M31 8P13W	8-B-26	YES	2	(-50, 79)	1	1	(-60, 76)	1
327	M31 8P14W	8-B-27	YES	0	(0, 0)	0		SAME	
328	M32 4P10W	8-B-28	YES	0	(0, 0)	0	0	(70,-69)	0
329	M32 4P10 SP	8-B-29	YES	1	(0, 0)	0	0	(80,-40)	1
330	M32 4P10 7P	8-B-30	YES	1	(0, 0)	0	0	(-80, 40)	-1
331	M32 4P11 1P	8-B-31	YES	2	(0, 0)	0	0	(50, 30)	0
332	M32 4P11 3P	8-B-32	YES	2	(0, 0)	0		SAME	
333	M32 4P11 SPRH	8-B-33	YES	2	(20, 57)	0	0	(40, 40)	0
334	M32 4P11 SPRD	8-B-34	YES	2	(20, 57)	0	0	(80,-40)	0
335	M32 4P11 SPRL	8-B-35	YES	1	(0, 0)	0	0	(30, 49)	1
336	M32 4P12W	8-B-36	YES	1	(10, 64)	0	0	(80,-40)	-1
337	M32 4P13W	8-B-37	YES	0	(0, 0)	0	0	(-40, 80)	0
338	M32 4P14W	8-B-38	YES	0	(0, 0)	0	0	(40,-80)	0
339	M31 2S11W	8-B-39	YES	0	(0, 0)	0	0	(50, 30)	0
340	M31 2S12W	8-B-40	YES	2	(20, 57)	0	0	(40, 40)	0
341	M31 2S13W	8-B-41	YES	0	(0, 0)	0	1	(70,-69)	0
342	M31 2S14W	8-B-42	YES	0	(0, 0)	0	0	(80,-40)	0
343	M31 8S11W	8-B-43	YES	0	(0, 0)	0	0	(80,-40)	0
344	M31 8S11 2PRL	8-B-44	YES	0	(0, 0)	0	0	(70, -1)	0
345	M31 8S11 2PRD	8-B-45	YES	0	(0, 0)	0	0	(80,-40)	0
346	M31 8S11 2PRH	8-B-46	YES	2	(10, 64)	0	0	(-80, 40)	0
347	M31 8S12W	8-B-47	YES	0	(0, 0)	0	0	(-80, 40)	0
348	M31 8S13W	8-B-48	YES	0	(0, 0)	0	0	(50, 30)	0
349	M31 8S14W	8-B-49	YES	2	(0,-69)	0	0	(-80, 40)	0
350	M32 6S10W	8-B-50	YES	1	(0, 0)	0	0	(70, -1)	1
351	M32 6S10 7P	8-B-51	YES	0	(0, 0)	0	0	(80,-40)	0
352	M32 6S11 3P	8-B-52	YES	0	(0, 0)	0		SAME	
353	M32 6S12W	8-B-53	YES	1	(0, 0)	0	1	(-80, 40)	-1
354	M32 6S13W	8-B-54	YES	1	(0, 0)	0	1	(70, -1)	1
355	M32 6S14W	8-B-55	YES	0	(0, 0)	0		SAME	
356	H24 1S17 SP(HSL)	8-B-56	YES	4	(10,-74)	1	1	(30,-79)	0
357	H24 1S17 SP(HSU)	8-B-57	YES	4	(-70, 69)	0	1	(-50,-29)	2
358	H24 2S20 SP(HSL)	8-B-58	YES	5	(0, 69)	0	0	(-70, 69)	3
359	H24 2S20 SP(HSU)	8-B-59	YES	3	(0, 69)	0	0	(-10,-64)	-1
360	WS2P22T(D)	8-B-60	YES	2	(0, 0)	0	0	(-50, 79)	0
361	M21P13 SP	7- -1		409	(-80, 40)	12	25	(-40, 80)	235
362	M21P12W	7- -2		27	(30,-79)	-1	4	(-80, 40)	6
363	M21P6W	7- -3		150	(-70, 1)	143	144	(-80, 40)	140
364	M21P2W	7- -4		151	(-80, 40)	147		SAME	
365	M21C0W	7- -5	YES	0	(0, 0)	0		SAME	
366	M21S2W	7- -6		287	(-70, 69)	153	165	(-80, 40)	149
367	M21S4W	7- -7		209	(-80, 40)	206		SAME	
368	M21S6W	7- -8		185	(-70, 69)	185		SAME	
369	M21S8W	7- -9		186	(-70, 69)	188		SAME	
370	M21S10W	7- -10		172	(-70, 69)	170		SAME	
371	M21S11 SP	7- -11		164	(-70, 69)	151		SAME	
372	M21S12W	7- -12		122	(-70, 69)	124		SAME	
373	M21S12 SP	7- -13		110	(-70, 69)	102		SAME	
374	M21S13W	7- -14		142	(-70, 69)	135		SAME	
375	M21S13 SP	7- -15		112	(-70, 69)	101	104	(-60, 76)	112

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
376	H16 2S1SP(CU)	7- -16		148	(-70, 69)	129		SAME	
377	H21COW	7- -17		136	(70,-69)	114	133	(80,-40)	125
378	H21S2W	7- -18		123	(80,-40)	125		SAME	
379	H21P2W	7- -19		139	(80,-40)	144		SAME	
380	H21S5W	7- -20		101	(80,-40)	106		SAME	
381	H21S7W	7- -21		65	(70, -1)	72		SAME	
382	H21P7W	7- -22		87	(70,-69)	76		SAME	
383	H21S9W	7- -23		48	(60, 16)	48	49	(50, 30)	46
384	H21S11W	7- -24		151	(-70, 69)	150		SAME	
385	H21P11W	7- -25		89	(70,-69)	90		SAME	
386	H21S13W	7- -26		62	(30, 49)	50	50	(40, 40)	54
387	H21S13 SP	7- -27		64	(-40, 80)	62	62	(-30, 79)	60
388	H21P13 SP	7- -28		63	(40,-80)	60	61	(30,-79)	63
389	H21S14W	7- -29		724	(0, 69)	46	47	(-10, 74)	711
390	H21S16W	7- -30		113	(-70, 69)	109		SAME	
391	H21P16W	7- -31		78	(-50,-29)	80	81	(-60,-16)	76
392	H21S18W	7- -32		80	(20, 57)	45	50	(50, 30)	69
393	H21P18W	7- -33		114	(-70, 1)	105		SAME	
394	T33COW	7- -34		33	(-80, 40)	29		SAME	
395	T35COW	7- -35		42	(-20,-57)	-8	25	(80,-40)	4
396	T37COW	7- -36		238	(-50, 79)	-27	31	(70,-69)	-16
397	T39COW	7- -37		180	(70, -1)	15		SAME	
398	T41COW	7- -38		128	(0, 0)	0	36	(-70, 69)	45
399	T43COW	7- -39		14	(-60,-16)	9	11	(-80, 40)	14
400	T45COW	7- -40		7	(-60, 76)	5	7	(-80, 40)	3
401	T47COW	7- -41		10	(-60, 76)	8	10	(-80, 40)	2
402	Z33COW	7- -42		24	(-70, 1)	23	26	(-80, 40)	24
403	Z35COW	7- -43		39	(-80, 40)	41		SAME	
404	Z37COW	7- -44		93	(-80, 40)	94		SAME	
405	Z39COW	7- -45		145	(-80, 40)	142		SAME	
406	Z41COW	7- -46		0	(0, 0)	0	179	(-80, 40)	0
407	Z43COW	7- -47		221	(-80, 40)	223		SAME	
408	Z45COW	7- -48		273	(-80, 40)	279		SAME	
409	Z47COW	7- -49		312	(-70, 69)	321	359	(-80, 40)	299
410	M33COW	7- -50		237	(-80, 40)	234		SAME	
411	M35COW	7- -51		309	(-80, 40)	325		SAME	
412	M37COW	7- -52	YES	0	(0, 0)	0		SAME	
413	M39COW	7- -53	YES	0	(0, 0)	0		SAME	
414	M41COW	7- -54	YES	0	(0, 0)	0		SAME	
415	M43COW	7- -55	YES	0	(0, 0)	0		SAME	
416	M45COW	7- -56	YES	0	(0, 0)	0		SAME	
417	M47COW	7- -57	YES	0	(0, 0)	0		SAME	
418	B40S8MMW(C)	7- -58	YES	0	(0, 0)	0		SAME	
419	B40S12MMP(C)	7- -59	YES	0	(0, 0)	0		SAME	
420	B16P12(DB)	7- -60	YES	0	(0, 0)	0		SAME	
421	I33 3COP	7-A- 1		203	(80,-40)	195		SAME	
422	I37COP	7-A- 2		307	(80,-40)	294		SAME	
423	I41COP	7-A- 3		308	(80,-40)	327		SAME	
424	I45 3COP	7-A- 4		289	(80,-40)	300		SAME	
425	F33 3COW	7-A- 5		25	(-80, 40)	22		SAME	
426	F37COW	7-A- 6		26	(-70, 69)	12	14	(-80, 40)	13
427	F41COW	7-A- 7		34	(0, 0)	0	11	(-80, 40)	28
428	F45 3COW	7-A- 8		23	(-80, 40)	7		SAME	
429	H33COP	7-A- 9		478	(80,-40)	479		SAME	
430	H35COP	7-A-10	YES	0	(0, 0)	0		SAME	
431	H37COP	7-A-11		430	(80,-40)	439		SAME	
432	H39COP	7-A-12		469	(80,-40)	461		SAME	
433	H41COP	7-A-13		510	(80,-40)	512		SAME	
434	H43COP	7-A-14	YES	0	(0, 0)	0		SAME	
435	H45COP	7-A-15	YES	0	(0, 0)	0		SAME	
436	H21COP	7-A-16	YES	0	(0, 0)	0		SAME	
437	M33S11 1P	7-A-17		315	(-70, 69)	321		SAME	
438	M33P11 1P	7-A-18		191	(-70, 1)	186		SAME	
439	M35S11 1P	7-A-19		349	(-70, 69)	363		SAME	
440	M37S11 1P	7-A-20		364	(-70, 69)	367		SAME	
441	M37P11 1P	7-A-21		298	(-70, 1)	276		SAME	
442	M39S11 1P	7-A-22		1238	(40, 40)	-12	43	(-70, 69)	25
443	M41S11 1P	7-A-23		353	(-70, 69)	357		SAME	
444	M41P11 1P	7-A-24		311	(-70, 1)	313		SAME	
445	M43S11 1P	7-A-25		392	(-70, 69)	388		SAME	
446	M45S11 1P	7-A-26		409	(-70, 69)	410		SAME	
447	M45P11 1P	7-A-27		333	(-70, 1)	332		SAME	
448	M47S11 1P	7-A-28		283	(-70, 69)	282		SAME	
449	M33S14P	7-A-29		1461	(10,-74)	-203	420	(-70, 69)	427
450	M33P14P	7-A-30	YES	0	(0, 0)	0		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
451	M35S14P	7-A-31		431	(-70, 69)	427		SAME	
452	M37S14P	7-A-32		392	(-70, 69)	404		SAME	
453	M37P14P	7-A-33		269	(-50, -29)	72	199	(40, -80)	39
454	M39S14P	7-A-34		1568	(40, -80)	-263	332	(-70, 69)	239
455	M41S14P	7-A-35		1105	(0, 0)	0	286	(-70, 69)	66
456	M41P14P	7-A-36		281	(-70, 1)	190	197	(-60, -16)	143
457	M43S14P	7-A-37		470	(-40, 80)	323	401	(-70, 69)	374
458	M45S14P	7-A-38		417	(-70, 65)	457		SAME	
459	M45P14P	7-A-39	YES	0	(0, 0)	0		SAME	
460	M47S14P	7-A-40		467	(-70, 69)	473		SAME	
461	W32 1SMZO 1RV	7-A-41		213	(70, -69)	221	231	(80, -40)	207
462	W32 1SMZO 1RD	7-A-42		608	(-80, 40)	597		SAME	
463	W32 1SMZO 1RL	7-A-43		428	(-80, 40)	421		SAME	
464	W32 1SZTO 1P	7-A-44		82	(0, 0)	0	28	(30, -79)	-14
465	W35SMZO 5P	7-A-45		414	(-70, 69)	411		SAME	
466	W35SMZ2W	7-A-46		293	(-80, 40)	275		SAME	
467	W35SZM3 9P	7-A-47		312	(-80, 40)	310		SAME	
468	W35SZTO 1P	7-A-48		255	(-80, 40)	260		SAME	
469	W35SZT2W	7-A-49		101	(-80, 40)	95		SAME	
470	W35STZ3 9P	7-A-50		109	(-80, 40)	102		SAME	
471	M49 5S9P(FO)	7-A-51		341	(-70, 69)	368		SAME	
472	M49 5S9P(AO)	7-A-52		372	(-70, 69)	376		SAME	
473	B48S2MMW(C)	7-A-53		89	(-80, 40)	108		SAME	
474	B56S10 1MMP(C)	7-A-54		65	(-80, 40)	70	72	(-70, 69)	49
475	B40S3MMS(BM)	7-A-55		25	(-10, -64)	14	22	(-70, 1)	-6
476	B40S3MMP(BM)	7-A-56		122	(-80, 40)	122		SAME	
477	B40S3MZS	7-A-57		81	(-80, 40)	81		SAME	
478	B40S3MZP	7-A-58		70	(-80, 40)	71		SAME	
479	B48S5MMP	7-A-59		76	(-80, 40)	91		SAME	
480	H44S19(D)	7-A-60		65	(-80, 40)	67		SAME	
481	T49P10W	7-B- 1		231	(-70, 1)	230	231	(-80, 40)	221
482	T49P6W	7-B- 2		68	(-70, 1)	68	69	(-80, 40)	60
483	T49C0W	7-B- 3		20	(-60, 76)	20	24	(-80, 40)	16
484	T49S2W	7-B- 4		33	(-80, 40)	24	25	(-70, 69)	31
485	T49S4W	7-B- 5		30	(-60, 76)	23	23	(-70, 69)	22
486	T49S6W	7-B- 6		0	(0, 0)	0	53	(-80, 40)	0
487	T49S8W	7-B- 7		197	(-70, 69)	166	168	(-80, 40)	161
488	T49S10W	7-B- 8		284	(-80, 40)	276		SAME	
489	T49S10 5P	7-B- 9		369	(-80, 40)	374		SAME	
490	T49S10 9P	7-B-10		436	(-80, 40)	437		SAME	
491	Z49P10W	7-B-11		388	(-70, 1)	384		SAME	
492	Z49P6W	7-B-12		258	(-70, 1)	262		SAME	
493	Z49C0W	7-B-13	YES	0	(0, 0)	0		SAME	
494	Z49S2W	7-B-14		348	(-80, 40)	339		SAME	
495	Z49S4W	7-B-15		401	(-80, 40)	404		SAME	
496	Z49S6W	7-B-16		464	(-80, 40)	470		SAME	
497	Z49S8W	7-B-17		281	(-80, 40)	278		SAME	
498	Z49S10W	7-B-18		443	(-70, 69)	442		SAME	
499	Z49S10 5P	7-B-19		465	(-70, 69)	464		SAME	
500	Z49S10 9P	7-B-20		465	(-80, 40)	468	471	(-70, 69)	465
501	W49SMZ2W	7-B-21		199	(-70, 69)	204		SAME	
502	W49SZM3 9P	7-B-22		516	(-70, 69)	494	495	(-80, 40)	502
503	W49SMZO 1RL	7-B-23		413	(-70, 69)	417		SAME	
504	W49SMZO 1RD	7-B-24		377	(-80, 40)	384		SAME	
505	W49SMZO 1RV	7-B-25		300	(70, -69)	275	278	(80, -40)	288
506	W49SZT2W	7-B-26		420	(-80, 40)	428		SAME	
507	W49STZ3 9P	7-B-27		406	(-80, 40)	407		SAME	
508	W49SZTO 1RL	7-B-28		454	(-70, 69)	455		SAME	
509	W49SZTO 1RD	7-B-29		24	(80, -40)	7	18	(30, 49)	1
510	W49SZTO 1RV	7-B-30		151	(80, -40)	141		SAME	
511	M49P14W	7-B-31	YES	0	(0, 0)	0		SAME	
512	M49P13W	7-B-32		27	(-70, 1)	9		SAME	
513	M49P11 1P	7-B-33		286	(-70, 1)	273		SAME	
514	M49P10W	7-B-34		241	(-60, -16)	245	247	(-70, 1)	241
515	M49P6W	7-B-35		265	(-70, 1)	268		SAME	
516	M49P2W	7-B-36		327	(-80, 40)	334		SAME	
517	M49C0W	7-B-37		261	(-80, 40)	277		SAME	
518	M49S2W	7-B-38		394	(-80, 40)	407		SAME	
519	M49S4W	7-B-39		399	(-80, 40)	416		SAME	
520	M49S6W	7-B-40		347	(-80, 40)	349		SAME	
521	M49S8W	7-B-41		359	(-70, 69)	363		SAME	
522	M49S9 5P	7-B-42		392	(-70, 69)	385		SAME	
523	M49S10W	7-B-43		387	(-70, 69)	389		SAME	
524	M49S10 5P	7-B-44		416	(-70, 69)	411		SAME	
525	M49S10 9P	7-B-45		416	(-70, 69)	415		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
526	M49S12W	7-B-46		430	(-70, 69)	433		SAME	
527	M49S12 SP	7-B-47		419	(-70, 69)	419		SAME	
528	M49S13W	7-B-48		486	(-70, 69)	486		SAME	
529	M49S13 SP	7-B-49		0	(0, 0)	0		SAME	
530	M49S14W	7-B-50		472	(-70, 69)	473		SAME	
531	M49S11 1P	7-B-51		410	(-70, 69)	421		SAME	
532	B48COMMS(C)	7-B-52		144	(-60, -16)	100	133	(-80, 40)	124
533	238S3 SP(C)	7-B-53		193	(-80, 40)	196		SAME	
534	233S3 SP(C)	7-B-54		126	(-80, 40)	132		SAME	
535	233S3 SP(C)	7-B-55		131	(-80, 40)	130		SAME	
536	243P3 SP(CO)	7-B-56		241	(-80, 40)	240		SAME	
537	243P3 SP(CI)	7-B-57		221	(-80, 40)	219		SAME	
538	253P3 SP(CI)	7-B-58		303	(-80, 40)	297		SAME	
539	253P3 SP(CO)	7-B-59		355	(-80, 40)	329		SAME	
540	H52S18(D)	7-B-60		128	(-80, 40)	127		SAME	
541	H16.2S1SP(CL)	6- -1	YES	0	(0, 0)	0		SAME	
542	H49P3W	6- -2		508	(80, -40)	518		SAME	
543	H49P7W	6- -3		442	(80, -40)	458		SAME	
544	H49P10W	6- -4		389	(70, -69)	399		SAME	
545	H49P12W	6- -5		329	(70, -69)	363		SAME	
546	H49P15 SP	6- -6		205	(40, -80)	212		SAME	
547	H49P18W	6- -7	YES	1	(0, 0)	0	1	(-80, 40)	1
548	H49S1W	6- -8		533	(80, -40)	542		SAME	
549	H49S3W	6- -9		451	(80, -40)	458		SAME	
550	H49S5W	6- -10		390	(80, -40)	397		SAME	
551	H49S7W	6- -11		370	(70, -1)	371		SAME	
552	H49S9W	6- -12		311	(70, -1)	310		SAME	
553	H49S10W	6- -13		249	(70, -1)	261		SAME	
554	H49S11W	6- -14		220	(60, 16)	230		SAME	
555	H49S12W	6- -15		200	(50, 30)	211		SAME	
556	H49S13W	6- -16		181	(0, 69)	171	181	(30, 49)	167
557	H49S15 SP	6- -17		223	(-40, 80)	218		SAME	
558	H49S16W	6- -18		499	(-60, 76)	240		SAME	
559	H49S18W	6- -19	YES	0	(0, 0)	0		SAME	
560	H49S19W	6- -20		462	(-70, 69)	465		SAME	
561	H45S11 SP	6- -21		192	(60, 16)	201	205	(50, 30)	190
562	H45S16 SP	6- -22		210	(-50, 79)	205		SAME	
563	T46S10.9P	6- -23		328	(-80, 40)	317		SAME	
564	T46S7W	6- -24		134	(-80, 40)	130		SAME	
565	T39S10.9P	6- -25		270	(-80, 40)	266		SAME	
566	T39S7W	6- -26	YES	0	(0, 0)	0		SAME	
567	T36S10.9P	6- -27		170	(-80, 40)	166		SAME	
568	T36S7W	6- -28		63	(-70, 69)	57		SAME	
569	M46S8W	6- -29		359	(-70, 69)	351		SAME	
570	M43S4W	6- -30		354	(-70, 69)	351		SAME	
571	M43S8W	6- -31		298	(-80, 40)	295		SAME	
572	M39S7W	6- -32		327	(-80, 40)	39	78	(-40, 80)	226
573	M39S8W	6- -33		322	(-80, 40)	312	312	(-70, 69)	322
574	M30S11W	6- -34		325	(-60, 76)	239	251	(-70, 69)	250
575	M30S8W	6- -35		318	(-70, 1)	212	285	(-70, 69)	302
576	M37S11W	6- -36		434	(70, -69)	158	163	(80, -40)	313
577	M27S8W	6- -37		290	(-50, 79)	172	226	(-80, 40)	227
578	H55S13W	6- -38	YES	0	(0, 0)	0		SAME	
579	H55P16 SP	6- -39		52	(-70, 1)	44		SAME	
580	T54P7W	6- -40		282	(-40, 80)	272		SAME	
581	T54P10.9P	6- -41		132	(-70, 1)	131	138	(-80, 40)	105
582	T54P7W	6- -42		37	(-80, 40)	28	30	(-70, 69)	37
583	T54P10.9P	6- -43		173	(-80, 40)	140		SAME	
584	M54S8 SP	6- -44		368	(-70, 69)	372		SAME	
585	H59COP	6- -45	YES	0	(0, 0)	0		SAME	
586	H57COP	6- -46		641	(80, -40)	658		SAME	
587	H57S13W	6- -47		237	(50, 30)	75	201	(-40, 80)	73
588	H55COP	6- -48		911	(70, -1)	0	18	(-40, 80)	-376
589	H53COP	6- -49	YES	0	(0, 0)	0		SAME	
590	H53P13W	6- -50		386	(70, -69)	395		SAME	
591	H53S13W	6- -51		248	(60, 16)	229	232	(50, 30)	214
592	H51COP	6- -52	YES	0	(0, 0)	0		SAME	
593	M51S14P	6- -53		472	(-70, 69)	471		SAME	
594	I52.5COP	6- -54		322	(80, -40)	331		SAME	
595	I57COP	6- -55		277	(80, -40)	0	1	(40, -80)	141
596	F49COW	6- -56		19	(-20, 77)	3	10	(-80, 40)	13
597	F52.5COW	6- -57		27	(-20, 77)	4	4	(-50, 79)	13
598	F57COW	6- -58	YES	0	(0, 0)	0		SAME	
599	H54.8S21P(C)	6- -59		451	(-70, 69)	437		SAME	
600	H20S13.5P(D)	6- -60		14	(-30, 79)	0	1	(80, -40)	-7

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
601	TS1COW	6-A- 1	YES	0	(0, 0)	0		SAME	
602	TS3COW	6-A- 2		15	(-80, 40)	9	9	(-70 69)	15
603	TS4COW	6-A- 3	YES	46	(-50, -29)	5	18	(-70, 69)	-3
604	TS5COW	6-A- 4		159	(-60, 76)	9	10	(-30 79)	14
605	Z60S10 9P	6-A- 5		1434	(-80, 40)	1437		SAME	
606	Z60S6W	6-A- 6		775	(-80, 40)	792		SAME	
607	Z60COW	6-A- 7	YES	1	(0, 0)	0	1	(-80, 40	1
608	Z59S10 9P	6-A- 8		1137	(-80, 40)	1140		SAME	
609	Z59COW	6-A- 9		528	(-80, 40)	538		SAME	
610	Z58S10 9P	6-A-10		889	(-80 40)	899		SAME	
611	Z58S6W	6-A-11		539	(-80, 40)	534		SAME	
612	Z58COW	6-A-12		482	(-80, 40)	505		SAME	
613	Z57COW	6-A-13		515	(-80, 40)	503		SAME	
614	Z57S10 9P	6-A-14		634	(-80 40)	629		SAME	
615	Z56 2P10 9P	6-A-15		492	(-70 1)	495		SAME	
616	Z56 2COW	6-A-16		462	(-80, 40)	476		SAME	
617	Z56 2P6W	6-A-17		507	(-80, 40)	509		SAME	
618	Z56 2S6W	6-A-18		585	(-80, 40)	592		SAME	
619	Z56 2S10 9P	6-A-19		901	(-80 40)	744		SAME	
620	Z55COW	6-A-20		462	(-80 40)	475		SAME	
621	Z55S10 9P	6-A-21		702	(-80 40)	703		SAME	
622	Z54COW	6-A-22		469	(-80, 40)	472		SAME	
623	Z55S6W	6-A-23		560	(-80, 40)	559		SAME	
624	Z54S10 9P	6-A-24		661	(-80, 40)	670		SAME	
625	Z53COW	6-A-25		442	(-80 40)	442		SAME	
626	Z51COW	6-A-26	YES	0	(0 0)	0		SAME	
627	M51COW	6-A-27	YES	0	(0, 0)	0		SAME	
628	M51S11 1P	6-A-28		441	(-70 69)	432		SAME	
629	I49COP	6-A-29		326	(80 -40)	330		SAME	
630	M53COW	6-A-30	YES	0	(0, 0)	0		SAME	
631	M53S11 1P	6-A-31		407	(-70 69)	407		SAME	
632	M53S14P	6-A-32		511	(-70 69)	511		SAME	
633	M53P11 1P	6-A-33		293	(-60 -16)	273	274	(-70, 1)	273
634	M53P14	6-A-34		281	(-50, -29)	86	235	(40, -80)	68
635	M55COW	6-A-35		328	(-80, 40)	314		SAME	
636	M55S11 1P	6-A-36		257	(-20 -57)	67	403	(70, -69)	180
637	M55S14P	6-A-37		533	(-70, 69)	548		SAME	
638	M57COW	6-A-38		0	(0 0)	0	346	(-80, 40)	0
639	M57S11 1P	6-A-39		555	(-70, 69)	555		SAME	
640	M57S14P	6-A-40		387	(-70 69)	386		SAME	
641	M57P14	6-A-41	YES	0	(0 0)	0		SAME	
642	M57P11 1P	6-A-42		357	(-60, -16)	351		SAME	
643	M59COW	6-A-43	YES	0	(0, 0)	0		SAME	
644	M59S14P	6-A-44		522	(-70 69)	525		SAME	
645	M59S11 1P	6-A-45		394	(-70, 69)	395		SAME	
646	W55 9SMZO 1RV	6-A-46		221	(-50 79)	214	227	(-70, 69)	210
647	W55 9SMZO 1RD	6-A-47		219	(40, 40)	149	180	(-10, 74)	192
648	W55 9SMZO 1RL	6-A-48		341	(-70, 69)	328		SAME	
649	W55 9STZO 1RV	6-A-49		212	(80 -40)	199	203	(70, -69)	204
650	W55 9STZO 1RD	6-A-50		262	(-80, 40)	217		SAME	
651	W55 9STZO 1RL	6-A-51		771	(-70, 69)	710	717	(-80, 40)	704
652	W55 9SZM3 9RV	6-A-52		165	(80, -40)	186		SAME	
653	W55 9SZM3 9RD	6-A-53		289	(-80, 40)	300		SAME	
654	W55 9SZM3 9RL	6-A-54		728	(-80, 40)	727		SAME	
655	W56 1SZM3 9RL	6-A-55		73	(30, 49)	-2	3	(-80, 40)	-66
656	W56 1SZM3 9RD	6-A-56		43	(-60 76)	-2	10	(60, 16)	-20
657	W56 1SZM3 9RV	6-A-57		90	(0 69)	-2	77	(-80, 40)	2
658	H58 3P20P	6-A-58		346	(60 -76)	347		SAME	
659	RESISTOR	6-A-59		31	(20, 57)	0	3	(-80 40)	7
660	W52S2MZ(D)	6-A-60		17	(-60, 76)	-2	3	(10, -74)	-1
661	B56COTTP	6-B- 1	YES	0	(0, 0)	0		SAME	
662	B56COTTS	6-B- 2		339	(-80, 40)	348		SAME	
663	B56P4TTP	6-B- 3		81	(40 -80)	45	50	(10, -74)	71
664	B56P4TTS	6-B- 4		244	(-70 1)	271		SAME	
665	B56P8TTP	6-B- 5		145	(30, -79)	62	140	(-50, -29)	78
666	B56P8TTS	6-B- 6		135	(-70, 1)	121	127	(-80, 40)	121
667	B56COZTP	6-B- 7	YES	2	(30 49)	0	0	(70, -69)	2
668	B56COZTS	6-B- 8		67	(-80, 40)	71		SAME	
669	B56P4ZTP	6-B- 9		101	(-10, -64)	96	130	(-60 -16)	89
670	B56P4ZTS	6-B-10		27	(10 -74)	17	18	(-10, -64)	23
671	B56P8ZTP	6-B-11		92	(10, -74)	75	107	(-50, -29)	71
672	B56P8ZTS	6-B-12		67	(-10, -64)	50	54	(-40, -40)	53
673	B56COMZP	6-B-13		64	(-50, -29)	77	93	(-70, 1)	62
674	B56COMZS	6-B-14		47	(0 0)	0	50	(-70, 1)	29
675	B56COMFP	6-B-15		101	(0 -69)	20	30	(-60, -16)	5

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
676	B56COMFS	6-B-16		31	(0, 0)	0	6	(-70, 1)	-5
677	B56P8MFP	6-B-17		36	(0, 0)	0	21	(-50, -25)	16
678	B56P8MFS	6-B-18		88	(20, -77)	72	80	(50, -79)	60
679	B56COFIP	6-B-19		164	(-80, 40)	9	49	(-10, -64)	26
680	B56COFIS	6-B-20		63	(-80, 40)	67		SAME	
681	B56P6FIP	6-B-21		40	(0, 0)	0	45	(70, -69)	12
682	B56P6FIS	6-B-22		26	(70, -69)	35		SAME	
683	B56S4TTP	6-B-23		107	(0, 69)	28	100	(-70, 69)	56
684	B56S4TTS	6-B-24		287	(-80, 40)	280		SAME	
685	B16P2IIW(C)	6-B-25		43	(0, 0)	0	19	(-70, 69)	6
686	B56S8TTS	6-B-26	YES	0	(0, 0)	0		SAME	
687	B56S42TP	6-B-27		100	(-10, 74)	41	135	(-80, 40)	85
688	B56S42TS	6-B-28		113	(-70, 69)	132		SAME	
689	B56S82TP	6-B-29		90	(-10, 74)	54	93	(-70, 69)	67
690	B56S82TS	6-B-30		49	(-30, 79)	37	49	(-70, 69)	43
691	B56S8MFP	6-B-31	YES	0	(0, 0)	0	44	(-80, 40)	0
692	B56S8MFS	6-B-32		90	(0, 69)	25	40	(60, 16)	34
693	B56S6FIP	6-B-33		39	(0, 69)	3	22	(80, -40)	-13
694	B56S6FIS	6-B-34		33	(40, 40)	22	33	(80, -40)	23
695	B56COMMRH	6-B-35		179	(-70, 69)	138	156	(-80, 40)	175
696	B56COMMRD	6-B-36		113	(80, -40)	118		SAME	
697	B56COMMRV	6-B-37		52	(60, -76)	40	60	(80, -40)	50
698	B56P7IIRV	6-B-38		0	(0, 0)	0	58	(80, -40)	0
699	B56P7IIRD	6-B-39		50	(30, -79)	23	61	(80, -40)	44
700	B56P7IIRH	6-B-40		107	(80, -40)	95		SAME	
701	B56P11IFRV	6-B-41		34	(0, 0)	0	10	(50, 30)	30
702	B56P11IFRD	6-B-42		336	(-80, 40)	326		SAME	
703	B56P11IFRH	6-B-43		66	(-80, 40)	25		SAME	
704	B56P13FFRV	6-B-44		39	(20, 57)	20	21	(-10, 74)	33
705	B56P13FFRD	6-B-45		136	(-70, 69)	149		SAME	
706	B56P13FFRH	6-B-46		41	(30, -79)	48	49	(50, -79)	39
707	B56S7IIRH	6-B-47		44	(70, -69)	45	51	(80, -40)	42
708	B56S7IIRD	6-B-48		82	(0, 69)	-9	50	(-80, 40)	-20
709	B56S7IIRV	6-B-49		53	(-20, 77)	-2	32	(80, -40)	-7
710	B56S11IFRH	6-B-50		148	(70, -1)	144	149	(80, -40)	148
711	B56S11IFRD	6-B-51		270	(80, -40)	297		SAME	
712	B56S11IFRV	6-B-52		49	(-60, -16)	47	44	(-70, 1)	47
713	B56S13FFRH	6-B-53		64	(-20, 77)	82	87	(-40, 80)	76
714	B56S13FFRD	6-B-54		29	(40, -80)	27	27	(50, -79)	27
715	B56S13FFRV	6-B-55		177	(-60, -16)	125	134	(-70, 1)	125
716	M36 1S4P(C)	6-B-56		35	(80, -40)	35		SAME	
717	M36S4P(C)	6-B-57		519	(-80, 40)	522		SAME	
718	M32 1S9P(C)	6-B-58		373	(-70, 69)	377		SAME	
719	M32 1P SP(C)	6-B-59		383	(80, 40)	295		SAME	
720	RESISTOR	6-B-60		58	(60, 16)	66	73	(80, -40)	40
721	APMM36C1PA	5- -1		373	(-70, 69)	249		SAME	
722	APMM36C2PA	5- -2		680	(-80, 40)	710		SAME	
723	APMM36C3PA	5- -3		706	(-80, 40)	701		SAME	
724	APMM36C4PA	5- -4	YES	278	(-70, 1)	278		SAME	
725	APMM36C5PA	5- -5		323	(-70, 1)	297		SAME	
726	APMM36P3PA4	5- -6		279	(-70, 1)	278		SAME	
727	APMM36C1PF	5- -7		249	(-70, 1)	253		SAME	
728	APMM36C2PF	5- -8		292	(-70, 1)	281	284	(-60, -16)	280
729	APMM36C3PF	5- -9		514	(-60, -16)	515		SAME	
730	APMM36C4PF	5- -10		452	(-40, -40)	446		SAME	
731	APMM36C5PF	5- -11		239	(40, -80)	242		SAME	
732	APMM36P1PFO 5	5- -12		309	(-60, -16)	303	303	(-70, 1)	307
733	APMM36P3PFO 5	5- -13		331	(-70, 1)	324		SAME	
734	APMM36P5PFO 5	5- -14		431	(-60, -16)	427		SAME	
735	APMM36RLPF	5- -15		486	(-60, -16)	478		SAME	
736	APMM36RDPF	5- -16		234	(-40, -40)	230		SAME	
737	APMM36RHPF	5- -17		246	(80, -40)	258		SAME	
738	APMM36P3PF2	5- -18		320	(-50, -29)	284	301	(-70, 1)	314
739	APMM36P3PF4	5- -19		297	(-70, 1)	298		SAME	
740	M35 3P11 1P	5- -20		273	(-70, 1)	271		SAME	
741	M35 3P11 SP	5- -21		284	(-70, 1)	286		SAME	
742	M35 3P12P	5- -22		240	(-60, -16)	196		SAME	
743	M38 6P11 7P	5- -23		168	(-40, -40)	161		SAME	
744	APMZ33C315	5- -24		20	(-40, -40)	16	17	(-60, -16)	20
745	APMZ33C308	5- -25		188	(80, -40)	190		SAME	
746	APMZ33C300(R)	5- -26		8	(0, 0)	0	3	(60, -76)	2
747	APMZ33C293	5- -27		508	(-80, 40)	513		SAME	
748	APMZ33RVMM	5- -28		24	(-60, 76)	23	23	(-50, 79)	22
749	APMZ33RDMM	5- -29	YES	0	(0, 0)	0	0	(-80, 40)	0
750	APMZ33RLMM	5- -30		174	(-70, 1)	156		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT,LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
751	APMZ33RLMA	5- -31	YES	0	(0, 0)	0	0	(80,-40)	0
752	APMZ33RDMA	5- -32		472	(-80, 40)	477		SAME	
753	APMZ33RVMA	5- -33		55	(-70, 69)	55		SAME	
754	APZZ38C2PA	5- -34		1312	(-80, 40)	1311		SAME	
755	APZZ38C3PA	5- -35	YES	0	(0, 0)	0		SAME	
756	APZZ38C4PA	5- -36	YES	0	(0, 0)	0		SAME	
757	APZZ38P3PA 5	5- -37		494	(-80, 40)	491		SAME	
758	APZZ38P3PA2	5- -38		347	(-70, 1)	338	349	(-80, 40)	335
759	APZZ38P3PA4	5- -39		285	(-70, 1)	286	288	(-80, 40)	281
760	APZZ38RHPA	5- -40		67	(-30, 79)	52		SAME	
761	APZZ38RDPA	5- -41	YES	0	(0, 0)	0		SAME	
762	APZZ38RLPA	5- -42		884	(-80, 40)	876		SAME	
763	APMZ39C315	5- -43		498	(-80, 40)	488		SAME	
764	APMZ39C308	5- -44		479	(-80, 40)	467		SAME	
765	APMZ39C300	5- -45		439	(-80, 40)	445		SAME	
766	APMZ39C293	5- -46		515	(-80, 40)	509		SAME	
767	APMZ42C315	5- -47		501	(-80, 40)	484		SAME	
768	APMZ42C308	5- -48		472	(-80, 40)	474		SAME	
769	APMZ42C300(R)	5- -49		94	(-70, 1)	-19	38	(70,-69)	51
770	APMZ42C293	5- -50		465	(-80, 40)	450		SAME	
771	B16P3MMRH	5- -51		59	(30, 49)	46	61	(70, -1)	47
772	B16P3MMRD	5- -52		93	(50,-79)	50	90	(80,-40)	53
773	B16P3MMRV	5- -53		322	(0, 0)	0	37	(80,-40)	6
774	H23P17MFP(U)	5- -54		192	(-30,-49)	115	117	(-40,-40)	138
775	H23 9P16MFP(HSU)	5- -55		401	(80,-40)	405		SAME	
776	H23 9P16MFP(HSL)	5- -56		429	(-80, 40)	454		SAME	
777	B24P10 5MMRH	5- -57		28	(-80, 40)	12	18	(-50, 79)	22
778	B24P10 5MMRD	5- -58		112	(80,-40)	109		SAME	
779	B24P10 5MMRV	5- -59		93	(80,-40)	93		SAME	
780	W36P2MZ(D)	5- -60		13	(-20, 77)	1	3	(-80, 40)	5
781	APMM44C1PA	5-A- 1	YES	0	(0, 0)	0		SAME	
782	APMM44C2PA	5-A- 2		726	(-70, 1)	732	741	(-80, 40)	720
783	APMM44C3PA	5-A- 3		731	(-70, 1)	733		SAME	
784	APMM44C4PA	5-A- 4	YES	613	(-70, 69)	621		SAME	
785	APMM44C5PA	5-A- 5		346	(-70, 1)	334		SAME	
786	APMM44P3PA4	5-A- 6		322	(-60,-16)	314	321	(-70, 1)	320
787	APMM44C1PF	5-A- 7		307	(-70, 1)	298		SAME	
788	APMM44C2PF	5-A- 8		326	(-60,-16)	321		SAME	
789	APMM44C3PF	5-A- 9		550	(-60,-16)	547		SAME	
790	APMM44C4PF	5-A-10		497	(-40,-40)	491		SAME	
791	APMM44C5PF	5-A-11		208	(20,-77)	196	206	(40,-80)	202
792	APMM44P1PFO 5	5-A-12		330	(-60,-16)	324		SAME	
793	APMM44P3PFO 5	5-A-13		354	(-70, 1)	349	349	(-60,-16)	350
794	APMM44P5PFO 5	5-A-14		458	(-60,-16)	455		SAME	
795	APMM44RLPF	5-A-15		515	(-60,-16)	509		SAME	
796	APMM44RDPF	5-A-16		220	(-40,-40)	216		SAME	
797	APMM44RHPF	5-A-17		263	(0, 69)	4	5	(-40, 80)	-176
798	APMM44P3PF2	5-A-18		357	(-60,-16)	329	335	(-70, 1)	340
799	APMM44P3PF4	5-A-19		328	(-70, 1)	330		SAME	
800	M43 3P11 1P	5-A-20		321	(-60,-16)	313	322	(-70, 1)	316
801	M43 3P11 5P	5-A-21		307	(-70, 1)	297		SAME	
802	M43 3P12 OP	5-A-22		321	(-50,-29)	282	291	(-60,-16)	290
803	M41 4P11 7P	5-A-23		365	(-70, 1)	358		SAME	
804	APMZ46C292	5-A-24		522	(-80, 40)	506		SAME	
805	APMZ46C285	5-A-25		436	(-70, 1)	-2	87	(40,-80)	-160
806	APMZ46C277	5-A-26		374	(-70, 1)	373		SAME	
807	APMZ46C270	5-A-27		313	(-70, 1)	316		SAME	
808	APZZ46C3PA	5-A-28		1115	(-80, 40)	1120		SAME	
809	APZZ46C3PF	5-A-29	YES	1	(0, 0)	0	0	(-80, 40)	-1
810	APZZ52C3SF	5-A-30		717	(-70, 69)	721		SAME	
811	ASZZ52C3SA	5-A-31	YES	0	(0, 0)	0	0	(-80, 40)	-2
812	APMZ62C101	5-A-32		350	(-70, 1)	341		SAME	
813	APMZ62C094	5-A-33		321	(-60,-16)	299	318	(-70, 1)	315
814	APMZ62C086(R)	5-A-34		93	(80,-40)	21		SAME	
815	APMZ62C078	5-A-35	YES	0	(0, 0)	0		SAME	
816	APMZ62RLZA	5-A-36	YES	0	(0, 0)	0		SAME	
817	APMZ62RDZA	5-A-37		100	(0, 0)	0	33	(0,-69)	-24
818	APMZ62RHZA	5-A-38		84	(0, 0)	0	28	(0,-69)	-21
819	ASMM66C1SF	5-A-39		600	(-80, 40)	610		SAME	
820	ASMM66C2SF	5-A-40		805	(-80, 40)	818		SAME	
821	ASMM66C3SF	5-A-41		836	(-80, 40)	862		SAME	
822	ASMM66C4SF	5-A-42		543	(-80, 40)	545		SAME	
823	ASMM66C5SF	5-A-43		515	(-80, 40)	517		SAME	
824	M59 SP SP(AC)	5-A-44		375	(-80, 40)	372		SAME	
825	M59 SP SP(FCD)	5-A-45		208	(-80, 40)	210		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
826	M59.9P SP(FC1)	5-A-46		251	(-80, 40)	254		SAME	
827	M48S5W(BMSU)	5-A-47	YES	94	(-80, 40)	5	59	(-10, 74)	15
828	B56P8MMS(BM)	5-A-48		74	(-80, 40)	67	69	(-70, 69)	66
829	M48S5W(BMSL)	5-A-49	YES	0	(0, 0)	0		SAME	
830	B56P8M2S(BM)	5-A-50		96	(30,-79)	67	82	(-20,-57)	68
831	B40S9MMP(C)	5-A-51		442	(80,-40)	435		SAME	
832	B64P8MMS(BM)	5-A-52		35	(-10, 74)	-1	39	(80,-40)	-5
833	H23.9S19S	5-A-53		83	(80,-40)	112		SAME	
834	B24S9.5MMRV(C)	5-A-54		76	(-70, 1)	57		SAME	
835	B24S9.5MMRD(C)	5-A-55		91	(-80, 40)	60	62	(-70, 1)	58
836	B24S9.5MMRH(C)	5-A-56		37	(20,-77)	29	33	(60,-76)	29
837	H23.9S16P(HSU)	5-A-57		245	(80,-40)	249		SAME	
838	H23.9S16P(HSL)	5-A-58		490	(-80, 40)	502		SAME	
839	H23P17MFP(L)	5-A-59		103	(-50,-29)	95	96	(-60,-16)	103
840	W44P2M2(O)	5-A-60		19	(0, 69)	3	4	(-50, 79)	9
841	M23.9S4.5P(HSO)	5-B- 1		91	(-20,-57)	88	93	(-50,-29)	91
842	M23.9S4.5P(HSI)	5-B- 2		145	(-10, 74)	94	98	(-30, 79)	115
843	H24.1P8.5P(HSL)	5-B- 3		377	(40,-80)	63	205	(80,-40)	306
844	H24.1P8.5P(HSU)	5-B- 4	YES	359	(-70, 1)	357		SAME	
845	H24.1P13.9P(C)	5-B- 5		51	(0, 69)	25	25	(0, 69)	11
846	H29.3P17.8RH	5-B- 6		52	(-20, 77)	24	31	(30, 49)	24
847	H29.3P17.8RD	5-B- 7		669	(-80, 40)	671		SAME	
848	H29.3P17.8RL	5-B- 8		138	(-20,-57)	137	139	(-30,-49)	138
849	H31.9P14S(C)	5-B- 9		95	(20,-77)	94	95	(10,-74)	95
850	B32P8FIRH(C)	5-B-10		37	(-10, 74)	10	39	(70, -1)	31
851	B32P8FIRD(C)	5-B-11		49	(-70, 1)	42		SAME	
852	B32P8FIRV(C)	5-B-12		133	(-80, 40)	127		SAME	
853	M31.8P11W	5-B-13		176	(-70, 1)	172		SAME	
854	M31.8P10.5P	5-B-14		211	(-70, 1)	203		SAME	
855	H37P20P	5-B-15		196	(-40,-40)	191	191	(-50,-29)	196
856	H37S20P(CU)	5-B-16		299	(-70, 69)	304		SAME	
857	H37S20P(CL)	5-B-17		292	(-70, 69)	286		SAME	
858	H37S19P(C)	5-B-18		291	(-70, 69)	291		SAME	
859	H37.4S20P(C)	5-B-19		324	(-70, 69)	326		SAME	
860	B40S8.5MFRV(BB)	5-B-20		50	(-10, 74)	16	27	(50, 30)	11
861	B40S8.5MFRD(BB)	5-B-21		156	(-80, 40)	132	144	(-70, 69)	152
862	B40S8.5MFRH(BB)	5-B-22		199	(-80, 40)	174		SAME	
863	H44S20P(LP)	5-B-23		307	(-70, 69)	312	314	(-60, 76)	301
864	H45.4S21P(C)	5-B-24		490	(-70, 69)	482		SAME	
865	H45.4S21P(C)	5-B-25		489	(-70, 69)	478		SAME	
866	H41P20P(C)	5-B-26		65	(-10, 74)	57	59	(-30, 79)	59
867	H47.9P9P(C)	5-B-27		462	(70,-69)	460		SAME	
868	B48P8.2MMRV(BB)	5-B-28		83	(-80, 40)	58		SAME	
869	B48P8.2MMRD(BB)	5-B-29	YES	2	(0, 0)	0	0	(-80, 40)	2
870	B48P8.2MMRH(BB)	5-B-30		54	(10,-74)	38	67	(70,-69)	14
871	H42.6P20P(C)	5-B-31	YES	1	(0, 0)	0	0	(-20, 77)	-1
872	B48P12MMP(CI)	5-B-32		45	(80,-40)	35	35	(70, -1)	37
873	B48P12MMP(CO)	5-B-33		60	(70,-69)	53	69	(80,-40)	42
874	B48CO1P(C)	5-B-34		44	(50, 30)	33	55	(80,-40)	26
875	I55.9P2P(C)	5-B-35	YES	0	(0, 0)	0		SAME	
876	H48.5P10P(GO)	5-B-36	YES	0	(0, 0)	0		SAME	
877	H51P14P(CU)	5-B-37		303	(60,-76)	307		SAME	
878	H51P14P(CL)	5-B-38		411	(70,-69)	423		SAME	
879	H49P19P(C)	5-B-39		221	(-30,-49)	217	219	(-20,-57)	217
880	H51P18P(C)	5-B-40		200	(-30,-49)	191	194	(-20,-57)	198
881	M56P8W(BMSUO)	5-B-41		117	(-70, 1)	115		SAME	
882	M56P8W(BMSLO)	5-B-42	YES	128	(0, 0)	0	67	(-50,-29)	77
883	M56P8W(BMSUO)	5-B-43		118	(-70, 1)	110		SAME	
884	M56P8W(BMSLO)	5-B-44	YES	0	(0, 0)	0		SAME	
885	RESISTOR	5-B-45		26	(0, 0)	0	4	(-60, 76)	-4
886	M40S3W(BMSU)	5-B-46		171	(-70, 1)	205	216	(-80, 40)	167
887	B56P8MMP(BM)	5-B-47		114	(10,-74)	90	93	(-10,-64)	95
888	M48S5W(BMSU)	5-B-48	YES	0	(0, 0)	0		SAME	
889	B56P8M2P(BM)	5-B-49		45	(20,-77)	34	37	(-10,-64)	39
890	M31.8P10W	5-B-50		195	(-60,-16)	201	203	(-70, 1)	195
891	H16S12P(CU)	5-B-51		99	(-70, 69)	81		SAME	
892	H16S12P(CM)	5-B-52		108	(-70, 69)	81		SAME	
893	H16S12P(CL)	5-B-53		135	(-70, 69)	115		SAME	
894	H14S12P(C)	5-B-54		21	(-10,-64)	8	14	(60,-76)	7
895	H10.6S8S(C)	5-B-55		83	(-70, 69)	71		SAME	
896	H12P14P(C)	5-B-56		30	(-60,-16)	23	23	(-70, 1)	30
897	H12P14P(C)	5-B-57		20	(10,-74)	13	14	(30,-79)	16
898	B16P8P(C)	5-B-58		98	(80,-40)	113		SAME	
899	H23S20P(C)	5-B-59		190	(-70, 69)	180		SAME	
900	RESISTOR	5-B-60		6	(0, 0)	0	1	(50, 30)	-2

TABLE B.6 (Continued)

				@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
901	B64COZZP	4- - 1		81	(-60, 76)	46	66	(-80, 40)	57
902	B64COZZS	4- - 2		41	(-70, 1)	51	55	(-80, 40)	41
903	B64P4ZZP	4- - 3		42	(-10,-64)	24	30	(40,-80)	0
904	B64P4ZZS	4- - 4		131	(-70, 1)	152	154	(-80, 40)	125
905	B64P8ZZP	4- - 5		72	(-60,-16)	69	70	(-70, 1)	72
906	B64P8ZZS	4- - 6		58	(-30,-49)	51	73	(-70, 1)	41
907	B64COMZP	4- - 7		56	(-60,-16)	75	87	(-80 40)	43
908	B64COMZS	4- - 8		45	(-70, 69)	35	37	(-80 40)	41
909	B64P4MZP	4- - 9		57	(-50 -29)	62	72	(-70, 1)	57
910	B64P4MZS	4- -10		85	(-60,-16)	89	94	(-70, 1)	81
911	B64P8MZP	4- -11		46	(-10,-64)	21	22	(20 -77)	35
912	B64P8MZS	4- -12		99	(-70, 1)	97		SAME	
913	B64COMFP	4- -13		42	(-30, 79)	3	19	(-80, 40)	-1
914	B64COMFS	4- -14		39	(-50,-29)	33	47	(-80, 40)	27
915	B64P2MFP	4- -15		19	(-50 -29)	24	29	(-80, 40)	11
916	B64P2MFS	4- -16	YES	1	(0, 0)	0	0	(30,-79)	1
917	B64COFIP	4- -17		38	(-80, 40)	52		SAME	
918	B64COFIS	4- -18		42	(-70, 69)	40	47	(-80, 40)	40
919	B64P6FIP	4- -19		32	(20,-77)	19	37	(70,-69)	10
920	B64P6FIS	4- -20		37	(0, 0)	0	38	(50 -79)	23
921	B64S4ZZP	4- -21		60	(-40, 80)	43	80	(-80, 40)	50
922	B64S4ZZS	4- -22		104	(-80, 40)	103		SAME	
923	B64S8ZZP	4- -23		131	(-60, 76)	107	117	(-80, 40)	109
924	B64S8ZZS	4- -24		43	(-10, 74)	15	36	(-70 69)	27
925	B64S4MZP	4- -25		78	(-70, 69)	87	95	(-80 40)	68
926	B64S4MZS	4- -26		118	(-80, 40)	170		SAME	
927	B64S8MZP	4- -27		83	(-80, 40)	101		SAME	
928	B64S8MZS	4- -28		124	(-80, 40)	135		SAME	
929	B64S4MFP	4- -29		81	(50, 79)	73	109	(-80, 40)	57
930	B64S4MFS	4- -30		66	(-30, 79)	41	89	(-80, 40)	30
931	B64S6FIP	4- -31		51	(-50, 79)	51	74	(-80, 40)	27
932	B64S6FIS	4- -32		72	(-40, 80)	61	93	(-80, 40)	52
933	B64COHHRH	4- -33		14	(80,-40)	16		SAME	
934	B64COHHRD	4- -34		18	(-50, 79)	8	8	(-60, 76)	13
935	B64COHHRV	4- -35		18	(0, 0)	0	8	(70, -1)	8
936	B64P711RV	4- -36		44	(30,-79)	43	70	(70,-69)	20
937	B64P711RD	4- -37	YES	15	(40, 40)	3	6	(80,-40)	9
938	B64P711RH	4- -38		99	(80,-40)	100		SAME	
939	B64P11FIRV	4- -39		417	(-80, 40)	402		SAME	
940	B64P11FIRD	4- -40		71	(60, 16)	35	69	(70,-69)	63
941	B64P11FIRH	4- -41		420	(0, 0)	0	117	(-70, 1)	261
942	B64P13FFRV	4- -42		91	(-30, 79)	82	86	(-50 79)	83
943	B64P13FFRD	4- -43		214	(-70, 69)	248		SAME	
944	B64P13FFRH	4- -44		34	(0, 0)	0	17	(80,-40)	22
945	B64S711RH	4- -45		59	(70,-69)	35	44	(80,-40)	54
946	B64S711RD	4- -46		50	(60,-76)	27	41	(80,-40)	28
947	B64S711RV	4- -47		19	(0, 69)	-10	11	(40,-80)	11
948	B64S11FIRH	4- -48		83	(70, -1)	44	77	(10 64)	47
949	B64S11FIRD	4- -49		352	(-80, 40)	318		SAME	
950	B64S11FIRV	4- -50		68	(-30,-49)	41	43	(0,-69)	52
951	B64S1311RH	4- -51	YES	0	(0, 0)	0		SAME	
952	B64S1311RD	4- -52		148	(-70, 69)	150	175	(-80 40)	146
953	B64S1311RV	4- -53		23	(-60,-16)	17	19	(-80, 40)	7
954	H61 2S20P(CU)	4- -54		546	(-70, 69)	546		SAME	
955	M59S8P(C)	4- -55		433	(-70, 69)	433		SAME	
956	APM246C112	4- -56		308	(-80, 40)	318		SAME	
957	APM246C105	4- -57		291	(-70, 1)	286	286	(-80, 40)	283
958	APM246C97	4- -58	YES	330	(-70, 1)	338		SAME	
959	APM246C90	4- -59		129	(-30,-49)	111	126	(-60,-16)	129
960	H60P19(D)	4- -60		11	(-50, 79)	5	9	(-80, 40)	5
961	M61P14P(G)	4-A- 1	YES	0	(0, 0)	0		SAME	
962	M61P11 1P	4-A- 2		314	(-60,-16)	312		SAME	
963	M61P10W	4-A- 3		294	(-60,-16)	280	282	(-70, 1)	292
964	M61P6W	4-A- 4		271	(-70, 1)	274		SAME	
965	M61P2W	4-A- 5		296	(-80, 40)	296		SAME	
966	M61COW	4-A- 6	YES	0	(0, 0)	0		SAME	
967	M61S2W	4-A- 7		309	(-80, 40)	310		SAME	
968	M61S4W	4-A- 8		277	(-80, 40)	274		SAME	
969	M61S6W	4-A- 9		370	(-70 69)	383	388	(-80 40)	366
970	M61S8W	4-A-10		359	(-70, 69)	358		SAME	
971	M61S9.5P	4-A-11		388	(-70, 69)	397		SAME	
972	M61S10W	4-A-12		410	(-70, 69)	397		SAME	
973	M61S10 5P	4-A-13		395	(-70, 69)	393		SAME	
974	M61S11 1P	4-A-14		451	(-70, 69)	454		SAME	
975	M61S12W	4-A-15		488	(-70, 69)	477		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
976	M61S12 5P	4-A-16	YES	2	(0 0)	0	0	(-80, 40)	0
977	M61S13W	4-A-17		524	(-50, 79)	450	510	(-70, 69)	499
978	M61S14P	4-A-18		509	(-70, 69)	510		SAME	
979	Z61C0W	4-A-19		660	(-80, 40)	681		SAME	
980	Z61S2W	4-A-20		371	(-80 40)	365		SAME	
981	Z61S4W	4-A-21		444	(-80 40)	442		SAME	
982	Z61S6W	4-A-22		879	(-80 40)	909		SAME	
983	Z61S8W	4-A-23		750	(-80 40)	760		SAME	
984	Z61S9W	4-A-24		776	(-80 40)	799		SAME	
985	Z61S10W	4-A-25		1033	(-80 4	1052		SAME	
986	Z61S10 5P	4-A-26		1219	(-80, 40)	1260		SAME	
987	Z61S10 9P	4-A-27		1172	(-80 40)	1214		SAME	
988	Z61P6W	4-A-28		914	(-80, 40)	912		SAME	
989	Z61P10W	4-A-29		955	(-80 40)	981		SAME	
990	W61SZM3 9P	4-A-30		1246	(-80 40)	1284		SAME	
991	W61SMZ0 1P	4-A-31		842	(-80 40)	866		SAME	
992	H56 1S21P	4-A-32		906	(-80 40)	930	933	(-70, 69)	896
993	H61S3W	4-A-33		513	(80 -40)	519		SAME	
994	H61P5W	4-A-34		560	(80 -40)	561		SAME	
995	H61S5W	4-A-35		444	(80, -40)	439		SAME	
996	H61S7W	4-A-36		359	(70, -1)	361		SAME	
997	H61P7W	4-A-37	YES	73	(70, -1)	48		SAME	
998	H61S9W	4-A-38		344	(-70, 69)	341	345	(-60, 76)	344
999	H61S11W	4-A-39		451	(70, -69)	459		SAME	
1000	H61P11W	4-A-40		462	(80 -40)	461		SAME	
1001	H61S13W	4-A-41		259	(50, 30)	249		SAME	
1002	H61S14W	4-A-42		217	(40 40)	220		SAME	
1003	H61P14W	4-A-43		298	(70, -69)	375		SAME	
1004	H61S15W	4-A-44		212	(0, 69)	203	203	(0, 69)	196
1005	H61S16 5P	4-A-45		236	(-40 80)	226		SAME	
1006	H61P16 5P	4-A-46		205	(20 -77)	206	214	(40, -80)	199
1007	H61S18W	4-A-47		678	(0, 0)	0	1206	(70, -69)	513
1008	H61S20WL	4-A-48		479	(-70 69)	480		SAME	
1009	H61P20WL	4-A-49		296	(-50 -29)	295		SAME	
1010	H57 9P9S(C)	4-A-50		192	(70, -69)	169		SAME	
1011	B56P811P(C)	4-A-51		64	(60 -76)	87	94	(80, -40)	25
1012	ASMZ76C098	4-A-52		438	(-80, 40)	432		SAME	
1013	ASMZ76C105	4-A-53		463	(-80, 40)	477		SAME	
1014	ASMZ76C112	4-A-54		527	(-80, 40)	530		SAME	
1015	ASMM66C5SA	4-A-55		798	(-70, 69)	788		SAME	
1016	ASMM66C4SA	4-A-56		902	(70 69)	887		SAME	
1017	ASMM66C3SA	4-A-57		856	(-70 69)	856		SAME	
1018	ASMM66C1SA	4-A-58	YES	3423	(40 40)	-109	349	(50, -79)	1077
1019	ASMM66C1SA	4-A-59		573	(-70, 69)	566		SAME	
1020	W68S2MZ(D)	4-A-60		10	(-40, -40)	0	1	(-60, 76)	2
1021	B72C0HHRH	4-B- 1		39	(-70 69)	41	45	(-80, 40)	35
1022	B72C0HHRD	4-B- 2		62	(-70, 69)	49	53	(-80, 40)	52
1023	B72C0HHRV	4-B- 3		98	(-80, 40)	86		SAME	
1024	B72P12 5FIRV	4-B- 4		156	(80 -40)	149	161	(70, -69)	148
1025	B72P12 5FIRD	4-B- 5		165	(-80 40)	135		SAME	
1026	B72P12 5FIRH	4-B- 6		82	(80, -40)	83		SAME	
1027	B72S12 5FIRH	4-B- 7		105	(70, -1)	73	80	(50, 30)	78
1028	B72S12 5FIRD	4-B- 8		149	(-70, 1)	164		SAME	
1029	B72S12 5FIRV	4-B- 9		100	(0, 0)	0	31	(-20, -57)	12
1030	Z62 5C0W	4-B-10		539	(-80, 40)	551		SAME	
1031	Z65C0W	4-B-11		482	(-80, 40)	492		SAME	
1032	Z67C0W	4-B-12		498	(-80, 40)	501		SAME	
1033	Z69C0W	4-B-13		506	(-80, 40)	515		SAME	
1034	Z71C0W	4-B-14		477	(-80 40)	488		SAME	
1035	Z63S6W	4-B-15		615	(-80, 40)	621		SAME	
1036	Z63S11W	4-B-16	YES	0	(0, 0)	0	1	(70, -1)	0
1037	M63C0W	4-B-17		322	(-80, 40)	1	1	(-40, 80)	162
1038	M63S11 1P	4-B-18		495	(-70 69)	494		SAME	
1039	M63S14P	4-B-19		573	(-70 69)	574		SAME	
1040	M65C0W	4-B-20		321	(-80, 40)	327		SAME	
1041	M65S11 1P	4-B-21		465	(-70, 69)	499		SAME	
1042	M65S14P	4-B-22		593	(-70, 69)	602		SAME	
1043	M65P14P	4-B-23		368	(-60, -16)	356		SAME	
1044	M65P11 1P	4-B-24		318	(-60, -16)	320		SAME	
1045	M67C0W	4-B-25	YES	0	(0, 0)	0		SAME	
1046	M67S11 1P	4-B-26		465	(-70, 69)	470		SAME	
1047	M67S14P	4-B-27		489	(-70, 69)	504		SAME	
1048	M69C0W	4-B-28	YES	0	(0 0)	0		SAME	
1049	M69S11 1P	4-B-29		455	(-70 69)	463		SAME	
1050	M69S14P	4-B-30		491	(-70 69)	490		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT, LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT, LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
1051	M69P11 IP	4-B-31		345	(-80, 40)	352		SAME	
1052	M69P14P	4-B-32	YES	0	(0, 0)	0		SAME	
1053	M71COW	4-B-33		305	(-80, 40)	305		SAME	
1054	M71S10 IP	4-B-34		427	(-70, 69)	427		SAME	
1055	M71S13P	4-B-35		3857	(0, 0)	0	596	(-70, 65)	424
1056	M63S8 SP	4-B-36		357	(-70, 69)	360		SAME	
1057	I69COP	4-B-37	YES	52	(80, -40)	33		SAME	
1058	I65COP	4-B-38		9	(10, 64)	3	4	(60, 16)	5
1059	F65CONA	4-B-39	YES	0	(0, 0)	0		SAME	
1060	H63COP	4-B-40		337	(80, -40)	342		SAME	
1061	H65COP	4-B-41		811	(80, -40)	645		SAME	
1062	H65S13W	4-B-42		228	(60, 16)	229	230	(50, 30)	224
1063	H67COP	4-B-43	YES	0	(0, 0)	0		SAME	
1064	H69P13W	4-B-44		369	(70, -69)	367		SAME	
1065	H69COP	4-B-45	YES	0	(0, 0)	0		SAME	
1066	H69S13W	4-B-46		0	(0, 0)	0	276	(80, 40)	0
1067	H71COP	4-B-47		485	(80, -40)	489		SAME	
1068	I61COP	4-B-48		347	(80, -40)	343		SAME	
1069	F61CONA	4-B-49		14	(-70, 69)	11	12	(-80, 40)	10
1070	B64S8 SMMRV	4-B-50		59	(-60, 76)	43	45	(-70, 65)	55
1071	B64S8 SMMRD	4-B-51		128	(-70, 69)	98	104	(80, 40)	124
1072	B64S8 SMMRH	4-B-52		595	(-80, 40)	253		SAME	
1073	H65S20P(CU)	4-B-53		455	(-70, 69)	455		SAME	
1074	H65S20P(ACL)	4-B-54		430	(-70, 69)	423		SAME	
1075	H65S20P(FCL)	4-B-55		379	(-70, 69)	377		SAME	
1076	ASMZ76C090	4-B-56		350	(-70, 69)	353		SAME	
1077	ASMZ62C65	4-B-57		401	(-70, 1)	400		SAME	
1078	ASMZ62C60	4-B-58	YES	5574	(0, 69)	-170	517	(70, -69)	-1245
1079	ASMZ62C55	4-B-59		316	(-70, 1)	318		SAME	
1080	H68S19P(D)	4-B-60		31	(0, 0)	0	2	(80, -40)	-11
1081	B80COZZP	3- - 1		110	(-80, 40)	104		SAME	
1082	B80COZZS	3- - 2		220	(80, -40)	218		SAME	
1083	B80P3ZZP	3- - 3		74	(-80, 40)	77		SAME	
1084	B80P3ZZS	3- - 4		139	(80, -40)	135		SAME	
1085	B80P8ZZP	3- - 5		36	(-80, 40)	34	34	(-70, 1)	34
1086	B80P8ZZS	3- - 6		72	(80, -40)	75		SAME	
1087	B80COMZP	3- - 7		18	(-10, 74)	7	11	(-70, 69)	8
1088	B80COMZS	3- - 8		25	(70, -69)	32	34	(80, -40)	21
1089	B80P3MZP	3- - 9		31	(-70, 1)	28	28	(-80, 40)	29
1090	B80P3MZS	3- -10		74	(80, -40)	76		SAME	
1091	B80P8MZP	3- -11		10	(70, -1)	10	12	(80, -40)	10
1092	B80P8MZS	3- -12		28	(70, -1)	23	26	(80, -40)	22
1093	B80COMFP	3- -13	YES	0	(0, 0)	0		SAME	
1094	B80COMFS	3- -14		43	(0, -69)	6	6	(30, -79)	12
1095	B80P9MFP	3- -15		30	(30, 49)	17	27	(70, -1)	22
1096	B80P9MFS	3- -16		511	(30, 49)	-31	35	(10, -74)	98
1097	B80COFIP	3- -17		41	(80, -40)	48		SAME	
1098	B80COFIS	3- -18		115	(-80, 40)	112		SAME	
1099	B80P6FIP	3- -19		31	(70, -69)	30	35	(80, -40)	29
1100	B80P6FIS	3- -20		29	(70, -69)	36	36	(80, -40)	25
1101	B80S4ZZP	3- -21		92	(-80, 40)	91		SAME	
1102	B80S4ZZS	3- -22		197	(80, -40)	195		SAME	
1103	B80S8ZZP	3- -23		73	(-80, 40)	71		SAME	
1104	B80S8ZZS	3- -24		136	(80, -40)	146		SAME	
1105	B80S4MZP	3- -25		22	(-70, 1)	21	23	(-80, 40)	22
1106	B80S4MZS	3- -26		27	(70, -1)	28		SAME	
1107	B80S8MZP	3- -27		11	(40, 40)	4	8	(80, -40)	3
1108	B80S8MZS	3- -28		55	(70, -69)	46	46	(80, -40)	51
1109	B80S7MFP	3- -29		5	(70, -69)	5	6	(80, -40)	3
1110	B80S7MFS	3- -30		33	(-50, 79)	22	23	(-70, 69)	26
1111	B80S6FIP	3- -31		34	(80, -40)	35		SAME	
1112	B80S6FIS	3- -32		52	(0, 69)	15	41	(70, -1)	28
1113	B80COHHRH	3- -33		154	(-70, 1)	2	15	(30, -79)	-37
1114	B80COHHRD	3- -34		96	(-80, 40)	98		SAME	
1115	B80COHHRV	3- -35		52	(-80, 40)	51		SAME	
1116	B80P7IIRV	3- -36		10	(80, -40)	14		SAME	
1117	B80P7IIRD	3- -37		28	(-30, 79)	11	14	(-70, 69)	22
1118	B80P7IIRH	3- -38		63	(-80, 40)	66		SAME	
1119	B80P11FIRV	3- -39		42	(20, 57)	12	30	(80, -40)	34
1120	B80P11FIRD	3- -40		37	(10, -74)	25	30	(50, -79)	25
1121	B80P11FIRH	3- -41		35	(40, -80)	31	34	(10, -74)	35
1122	B80P12FFRV	3- -42	YES	0	(0, 0)	0		SAME	
1123	B80P12FFRD	3- -43		24	(0, 69)	19	19	(10, 64)	16
1124	B80P12FFRH	3- -44		23	(-60, -16)	12	12	(-70, 1)	23
1125	B80S7IIRH	3- -45		72	(-80, 40)	71		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1126	B80S711RD	3- -46	YES	0	(0, 0)	0		SAME	
1127	B80S711RV	3- -47		267	(0, 0)	0	49	(-70, 69)	18
1128	B80S11FIRH	3- -48		32	(10, 64)	2	7	(-70, 69)	24
1129	B80S11FIRD	3- -49		53	(-60,-16)	50		SAME	
1130	B80S11FIRV	3- -50		37	(-30,-49)	31	34	(0,-69)	33
1131	B80S12FFRH	3- -51		20	(-80, 40)	21	22	(-70, 69)	20
1132	B80S12FFRD	3- -52	YES	0	(0, 0)	0	0	(70,-69)	0
1133	B80S12FFRV	3- -53		22	(-30,-49)	21		SAME	
1134	H84 SS21P(CU)	3- -54		323	(-70, 69)	318		SAME	
1135	H101P20P(UC)	3- -55		46	(-70, 1)	49		SAME	
1136	H100P20P(AC)	3- -56		40	(-70, 1)	38		SAME	
1137	B98COMMP(C)	3- -57		35	(80,-40)	41		SAME	
1138	M101 3COW(C)	3- -58		106	(-80, 40)	98		SAME	
1139	M101 3COW(C)	3- -59		6	(-40, 80)	1	4	(-80, 40)	4
1140	B80CMF(D)	3- -60		7	(-30, 79)	2	5	(-80, 40)	3
1141	M73P13P	3-A- 1		316	(-80, 40)	308		SAME	
1142	M73P12W	3-A- 2		319	(-70, 1)	317		SAME	
1143	M73P10 1P	3-A- 3		270	(-70, 1)	271		SAME	
1144	M73P8W	3-A- 4		274	(-70, 1)	267		SAME	
1145	M73P6W	3-A- 5		253	(-70, 1)	256		SAME	
1146	M73P2W	3-A- 6		304	(-80, 40)	308		SAME	
1147	M73COW	3-A- 7		318	(-80, 40)	318		SAME	
1148	M73S2W	3-A- 8		287	(-80, 40)	289		SAME	
1149	M73S4W	3-A- 9		330	(-70, 1)	320	322	(-60,-16)	328
1150	M73S6W	3-A-10		317	(-80, 40)	317		SAME	
1151	M73S8W	3-A-11		324	(-80, 40)	333		SAME	
1152	M73S9W	3-A-12		357	(-70, 69)	361	361	(-80, 40)	355
1153	M73S9 5P	3-A-13	YES	0	(0, 0)	0		SAME	
1154	M73S10 1P	3-A-14		420	(-70, 69)	420		SAME	
1155	M73S11W	3-A-15		471	(-70, 69)	472		SAME	
1156	M73S11 5P	3-A-16		433	(-70, 69)	432		SAME	
1157	M73S12P	3-A-17		488	(-70, 69)	488		SAME	
1158	M73S12 5P	3-A-18		521	(-70, 69)	524		SAME	
1159	M73S13P	3-A-19		542	(-70, 69)	542		SAME	
1160	Z73COW	3-A-20		463	(-80, 40)	470		SAME	
1161	Z73S2W	3-A-21		507	(-80, 40)	515		SAME	
1162	Z73S4W	3-A-22		461	(-80, 40)	470		SAME	
1163	Z73S6W	3-A-23		581	(-80, 40)	622		SAME	
1164	Z73S8W	3-A-24		662	(-80, 40)	683		SAME	
1165	Z73S9W	3-A-25		655	(-80, 40)	666		SAME	
1166	Z73S9 5P	3-A-26		688	(-80, 40)	687		SAME	
1167	Z73S10W	3-A-27		797	(-80, 40)	808		SAME	
1168	Z73S11P	3-A-28		744	(-80, 40)	793		SAME	
1169	Z73P6W	3-A-29		511	(-80, 40)	536		SAME	
1170	Z73P10W	3-A-30		485	(-80, 40)	496		SAME	
1171	W73SM20 1P	3-A-31		440	(-70, 69)	438		SAME	
1172	W73SM22 0W	3-A-32		345	(-70, 69)	369		SAME	
1173	W73SZM3 9P	3-A-33		719	(-80, 40)	722		SAME	
1174	H76S20P(CL)	3-A-34		318	(-70, 69)	316		SAME	
1175	H73S1W	3-A-35		416	(80,-40)	416		SAME	
1176	H73S3W	3-A-36		379	(80,-40)	371		SAME	
1177	H73P3W	3-A-37		466	(80,-40)	467		SAME	
1178	H73S5W	3-A-38		319	(80,-40)	312		SAME	
1179	H73S7W	3-A-39		295	(70, -1)	294		SAME	
1180	H73P7W	3-A-40		331	(70,-69)	342		SAME	
1181	H73S9W	3-A-41		259	(70, -1)	259		SAME	
1182	H73S11W	3-A-42	YES	0	(0, 0)	0		SAME	
1183	H73P11W	3-A-43		354	(70,-69)	353		SAME	
1184	H73S12W	3-A-44		237	(70, -1)	245		SAME	
1185	H73S13W	3-A-45		238	(60, 16)	228		SAME	
1186	H73P13W	3-A-46		410	(70,-69)	401		SAME	
1187	H73S14W	3-A-47		176	(50, 30)	186		SAME	
1188	H73S15W	3-A-48		184	(0, 69)	167	167	(0, 69)	161
1189	H73P15W	3-A-49		260	(60,-76)	258		SAME	
1190	H73S16 5P	3-A-50		228	(-40, 80)	224	226	(-50, 79)	222
1191	H73P16 5P	3-A-51		180	(20,-77)	176	178	(30,-79)	176
1192	H73S18W	3-A-52	YES	0	(0, 0)	0	2	(80,-40)	0
1193	H73S20W	3-A-53		469	(-70, 69)	467		SAME	
1194	H73P20W	3-A-54		274	(-60,-16)	273		SAME	
1195	H79 SS18P(AC)	3-A-55		72	(70,-69)	76		SAME	
1196	J98 1COP(C)	3-A-56		96	(-80, 40)	102		SAME	
1197	B98S6MMP(C)	3-A-57		200	(80,-40)	212		SAME	
1198	H17S17W(C)	3-A-58		65	(-70, 69)	63		SAME	
1199	RESISTOR	3-A-59		51	(0, 69)	-3	6	(-70, 1)	-4
1200	H76S19(D)	3-A-60		201	(10, 64)	2	2	(-40, 80)	-82

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT, LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
1201	Z75COW	3-B- 1		428	(-80, 40)	427		SAME	
1202	Z77COW	3-B- 2		400	(-80, 40)	406		SAME	
1203	Z79COW	3-B- 3		332	(-80, 40)	338		SAME	
1204	Z79 5COW	3-B- 4	YES	0	(0, 0)	0		SAME	
1205	Z83COW	3-B- 5		282	(-80, 40)	296		SAME	
1206	Z85COW	3-B- 6		187	(-80, 40)	194		SAME	
1207	W83PZM3 9P	3-B- 7		238	(-70, 1)	240		SAME	
1208	Z83P6W	3-B- 8		292	(-80, 40)	292		SAME	
1209	RESISTOR	3-B- 9	YES	0	(0, 0)	0	1	(-80, 40)	0
1210	Z83S6W	3-B-10		297	(-80, 40)	299		SAME	
1211	Z79 5S6W	3-B-11		463	(-80, 40)	411		SAME	
1212	Z79 5S9 9P	3-B-12		490	(-80, 40)	485		SAME	
1213	W83SMZ0 1P	3-B-13	YES	0	(0, 0)	0		SAME	
1214	W83SMZ2 0W	3-B-14		219	(-70, 69)	204		SAME	
1215	W83SZM3 9P	3-B-15	YES	0	(0, 0)	0		SAME	
1216	M75COW	3-B-16		320	(-70, 69)	307		SAME	
1217	M75S10 1P	3-B-17		417	(-70, 69)	423		SAME	
1218	M75S13P	3-B-18		476	(-70, 69)	477		SAME	
1219	M77COW	3-B-19		333	(-80, 40)	329		SAME	
1220	M77S10 1P	3-B-20		478	(-70, 69)	460		SAME	
1221	M77S13P	3-B-21		408	(-70, 69)	402		SAME	
1222	B80P61IW(C)	3-B-22		30	(0, 0)	0	28	(-80, 40)	18
1223	M77P13P	3-B-23	YES	0	(0, 0)	0		SAME	
1224	M79COW	3-B-24		288	(-80, 40)	286		SAME	
1225	M79S10 1P	3-B-25		327	(-70, 69)	324		SAME	
1226	M79S13P	3-B-26		293	(-70, 69)	295		SAME	
1227	M85COW	3-B-27		226	(-80, 40)	228		SAME	
1228	M81S10 1P	3-B-28		295	(-70, 69)	287		SAME	
1229	M81S13P	3-B-29		310	(-70, 69)	316		SAME	
1230	M81P10 1P	3-B-30		162	(60, -16)	159		SAME	
1231	M81P13P	3-B-31		225	(-70, 1)	224		SAME	
1232	M83COW	3-B-32	YES	0	(0, 0)	0		SAME	
1233	M83S10 1P	3-B-33		291	(-70, 69)	292		SAME	
1234	M83S13P	3-B-34		379	(-70, 69)	376		SAME	
1235	M81COW	3-B-35		279	(-80, 40)	278		SAME	
1236	M85S10 1P	3-B-36		250	(-70, 69)	244		SAME	
1237	M85S13P	3-B-37		241	(-70, 69)	227		SAME	
1238	M85P10 1P	3-B-38		227	(-70, 1)	229		SAME	
1239	M85P13P	3-B-39		144	(-60, -16)	146		SAME	
1240	F81 5S(4INS 18)	3-B-40		48	(40, -80)	50	51	(50, -79)	44
1241	M81S5 5P	3-B-41		312	(-80, 40)	314		SAME	
1242	M83S5 5P	3-B-42	YES	0	(0, 0)	0		SAME	
1243	M83P10 1P	3-B-43		203	(-70, 1)	203		SAME	
1244	M83P13P	3-B-44	YES	0	(0, 0)	0		SAME	
1245	I73COP	3-B-45		157	(80, -40)	157		SAME	
1246	I77COP	3-B-46		219	(80, -40)	218		SAME	
1247	I81COP	3-B-47		188	(80, -40)	207		SAME	
1248	F81CONA	3-B-48		32	(-50, 79)	14	18	(-80, 40)	20
1249	F85CONA	3-B-49		46	(-80, 40)	42		SAME	
1250	B80P8MMRH	3-B-50		17	(60, -76)	18	18	(50, -79)	17
1251	B80P8MMRD	3-B-51		32	(-70, 1)	32		SAME	
1252	B80P8MMRV	3-B-52	YES	1	(0, 0)	0	0	(60, 16)	-1
1253	B80P9MFRH	3-B-53		47	(-70, 1)	51		SAME	
1254	B80P9MFRD	3-B-54		50	(-60, -16)	50	54	(-70, 1)	50
1255	B80P9MFRV	3-B-55		7	(80, -40)	5		SAME	
1256	I85COP	3-B-56		257	(80, -40)	250		SAME	
1257	RESISTOR	3-B-57	YES	0	(0, 0)	0	1	(80, -40)	0
1258	RESISTOR	3-B-58		15	(0, 0)	0	3	(70, -1)	-3
1259	RESISTOR	3-B-59		7637	(10, -74)	96	153	(-60, -16)	359
1260	H83P19(D)	3-B-60		10	(-30, 79)	4	4	(-60, 76)	4
1261	B86COZZP	2- - 1		90	(80, -40)	92		SAME	
1262	B86COZZS	2- - 2		329	(-80, 40)	327		SAME	
1263	B86P3ZZP	2- - 3		56	(80, -40)	54		SAME	
1264	B86P3ZZS	2- - 4		209	(-80, 40)	211		SAME	
1265	B86P8ZZP	2- - 5		50	(80, -40)	55		SAME	
1266	B86P8ZZS	2- - 6		144	(-80, 40)	148		SAME	
1267	B86COMZP	2- - 7		6	(70, -1)	3		SAME	
1268	B86COMZS	2- - 8		65	(-70, 69)	57	64	(-80, 40)	63
1269	B86P3MZP	2- - 9		32	(-40, 80)	6	14	(-80, 40)	14
1270	B86P3MZS	2- -10		7	(-60, 76)	7	7	(-70, 69)	3
1271	B86P8MZP	2- -11		9	(-10, 74)	7	7	(0, 69)	5
1272	B86P8MZS	2- -12		29	(-70, 69)	26		SAME	
1273	B86COMFP	2- -13		6	(-10, 74)	2	2	(-40, 80)	2
1274	B86COMFS	2- -14		150	(-80, 40)	152		SAME	
1275	B86P9MFP	2- -15		29	(-80, 40)	29		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
1276	B86P9MFS	2- -16		69	(-70, 69)	59		SAME	
1277	B86COFIP	2- -17		19	(-80, 40)	17		SAME	
1278	B86COFIS	2- -18		15	(80, -40)	13	13	(70, -1)	13
1279	B86P6FIP	2- -19		28	(-70, 69)	30	31	(-80, 40)	24
1280	B86P6FIS	2- -20	YES	38	(-80, 40)	34		SAME	
1281	B86S4ZZP	2- -21		26	(80, -40)	28		SAME	
1282	B86S4ZZS	2- -22		171	(-80, 40)	165		SAME	
1283	B86S8ZZP	2- -23		60	(80, -40)	62		SAME	
1284	B86S8ZZS	2- -24	YES	150	(-80, 40)	150		SAME	
1285	B86S4MZP	2- -25		8	(-30, 79)	-1	5	(80, -40)	0
1286	B86S4MZS	2- -26		70	(-80, 40)	74		SAME	
1287	B86S8MZP	2- -27		16	(70, -69)	-8		SAME	
1288	B86S8MZS	2- -28		17	(-20, -57)	13	14	(-50, -29)	15
1289	B86S2MFP	2- -29		27	(-80, 40)	31		SAME	
1290	B86S2MFS	2- -30		47	(0, 69)	6	11	(70, -1)	8
1291	B86S6FIP	2- -31		20	(-60, -16)	13		SAME	
1292	B86S6FIS	2- -32		38	(-80, 40)	43		SAME	
1293	B86COMMRH	2- -33		13	(70, -1)	10		SAME	
1294	B86COMMRD	2- -34		12	(-70, 69)	12		SAME	
1295	B86COMMRV	2- -35		62	(-80, 40)	57		SAME	
1296	B86P7IIRV	2- -36	YES	4	(0, 69)	1	1	(40, 40)	0
1297	B86P7IIRD	2- -37		27	(-20, 77)	16	19	(20, 57)	5
1298	B86P7IIRH	2- -38		54	(-80, 40)	49		SAME	
1299	B86P11FIRV	2- -39		28	(-60, 76)	16	18	(-30, 79)	16
1300	B86P11FIRH	2- -40	YES	0	(0, 0)	0	0	(80, -40)	0
1301	B86P11FIRD	2- -41		54	(-80, 40)	51		SAME	
1302	B86P12FFRV	2- -42		29	(-30, 79)	13	15	(20, 57)	3
1303	B86P12FFRD	2- -43		55	(70, -1)	56		SAME	
1304	B86P12FFRH	2- -44		25	(70, -1)	21	21	(80, -40)	25
1305	B86S7IIRH	2- -45		106	(-80, 40)	100		SAME	
1306	B86S7IIRD	2- -46		104	(-80, 40)	96		SAME	
1307	B86S7IIRV	2- -47		23	(-10, -64)	16	19	(-50, -29)	17
1308	B86S11FIRH	2- -48		87	(0, 0)	0	63	(-80, 40)	63
1309	B86S11FIRD	2- -49		32	(-80, 40)	27		SAME	
1310	B86S11FIRV	2- -50		29	(70, -69)	23	27	(40, -80)	29
1311	B86S12FFRH	2- -51		9	(10, -74)	4	4	(40, -80)	7
1312	B86S12FFRD	2- -52		58	(80, -40)	54	55	(70, -69)	58
1313	B86S12FFRV	2- -53		61	(70, -69)	59		SAME	
1314	H84 SS21P(CM)	2- -54		285	(-70, 69)	280		SAME	
1315	H84 SS21P(CL)	2- -55		302	(-70, 69)	298		SAME	
1316	RESISTOR	2- -56		22	(0, 69)	2	2	(-60, 76)	-14
1317	RESISTOR	2- -57		19	(20, 57)	1	1	(-30, 79)	-10
1318	RESISTOR	2- -58		11	(0, 0)	0	2	(-10, 74)	-11
1319	RESISTOR	2- -59		13	(20, 57)	2	2	(30, 49)	7
1320	A78P3MZ(D)	2- -60		18	(0, 0)	0	5	(70, -69)	-8
1321	B92CCZZP	2-A- 1		141	(70, -1)	132		SAME	
1322	B92CCZZS	2-A- 2		328	(-80, 40)	333		SAME	
1323	B92P4ZZP	2-A- 3		29	(-10, 74)	9	34	(70, -1)	7
1324	B92P4ZZS	2-A- 4		168	(-80, 40)	164		SAME	
1325	B92P8ZZP	2-A- 5		84	(0, 69)	12	97	(80, -40)	66
1326	B92P8ZZS	2-A- 6		23	(40, -80)	-1	31	(70, -1)	19
1327	B92COMZP	2-A- 7		25	(50, -79)	-5	18	(50, 30)	13
1328	B92COMZS	2-A- 8		16	(-40, -40)	-2	15	(-60, 76)	-12
1329	B92P4MZP	2-A- 9		37	(-10, 74)	19	25	(50, 30)	16
1330	B92P4MZS	2-A-10		57	(40, -80)	-20	28	(-80, 40)	-10
1331	B92P8MZP	2-A-11		98	(-50, 79)	74	81	(-70, 69)	70
1332	B92P8MZS	2-A-12		102	(-50, 79)	45	54	(-70, 69)	52
1333	B92COMFP	2-A-13		27	(-20, -57)	-4	15	(-70, 69)	-24
1334	B92COMFS	2-A-14		132	(-80, 40)	135		SAME	
1335	B92P8MFP	2-A-15		92	(-70, 69)	88	90	(-80, 40)	84
1336	B92P8MFS	2-A-16		117	(-80, 40)	108		SAME	
1337	B92COFIP	2-A-17		810	(0, 0)	0	37	(40, -80)	-172
1338	B92COFIS	2-A-18		70	(70, -1)	8		SAME	
1339	B92P6FIP	2-A-19		50	(-70, 69)	56	58	(-80, 40)	46
1340	B92P6FIS	2-A-20	YES	37	(-70, 1)	32	36	(-80, 40)	37
1341	B92S4ZZP	2-A-21		32	(70, -69)	31	36	(40, -80)	14
1342	B92S4ZZS	2-A-22		151	(-50, 79)	155	191	(-80, 40)	135
1343	B92S8ZZP	2-A-23		68	(80, -40)	85		SAME	
1344	B92S8ZZS	2-A-24	YES	55	(0, 0)	0	92	(-80, 40)	-25
1345	B92S4MZP	2-A-25		80	(0, 0)	0	12	(50, -79)	-14
1346	B92S4MZS	2-A-26		92	(50, -79)	66	74	(70, -69)	88
1347	B92S8MZP	2-A-27		34	(-20, -57)	33	43	(-60, -16)	24
1348	B92S8MZS	2-A-28		40	(-40, -40)	32	50	(-80, 40)	7
1349	B92S2MFP	2-A-29		21	(60, -76)	1	1	(40, -80)	17
1350	B92S2MFS	2-A-30		25	(-50, -29)	18	34	(-80, 40)	16

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
1351	B92S6FIP	2-A-31		51	(-60, -16)	41	52	(-80, 40)	47
1352	B92S6FIS	2-A-32		53	(-60, 76)	37	43	(-80, 40)	51
1353	B92P 2HHRH	2-A-33		51	(-70, 1)	41	60	(-70, 69)	29
1354	B92P 2HHRD	2-A-34		65	(-80, 40)	70		SAME	
1355	B92P 2HHRV	2-A-35		21	(-60, 76)	9	9	(-70, 69)	19
1356	B92P7::RV	2-A-36	YES	3	(20, 57)	0	1	(70, -69)	-1
1357	B92P711RD	2-A-37		79	(-80, 40)	77		SAME	
1358	B92P7::PH	2-A-38		73	(-80, 40)	79		SAME	
1359	B92P''FIRV	2-A-39		32	(-60, 76)	12	14	(-30, 79)	30
1360	B92P11F:RD	2-A-40	YES	0	(0, 0)	0	0	(10, 64)	-2
1361	B92P''F:RH	2-A-41		62	(-80, 40)	55		SAME	
1362	B92P11 9FFRV	2-A-42		67	(10, 64)	16	19	(30, 49)	7
1363	B92P11 9FFRD	2-A-43		25	(70, -1)	34		SAME	
1364	B92P1' 9FFRH	2-A-44		37	(60, 16)	16	28	(-10, 74)	21
1365	B92S7::RH	2-A-45		63	(-80, 40)	53		SAME	
1366	B92S7::RD	2-A-46		53	(-70, 69)	46		SAME	
1367	B92S7::RV	2-A-47		30	(-50, -29)	25	28	(-70, 1)	26
1368	B92S11FIRH	2-A-48		7'	(-80, 40)	44	48	(-70, 1)	67
1369	B92S11F:RD	2-A-49		11	(60, -76)	-7	7	(-40, 80)	3
1370	B92S''FIRV	2-A-50		24	(0, 0)	0	10	(-80, 40)	[illegible]
1371	B92S11 9FFRH	2-A-51		42	(70, -1)	11	50	(50, -79)	32
1372	B92S1' 9FFRD	2-A-52		56	(70, -69)	46		SAME	
1373	B92S11 9FFRV	2-A-53		30	(60, -76)	30	32	(70, -69)	28
1374	F91S1' 9P(BB)	2-A-54		161	(70, -69)	168		SAME	
1375	M87 5P10S(PST)	2-A-55		170	(-70, 1)	176		SAME	
1376	RESISTOR	2-A-56		48	(0, 0)	0	9	(70, -69)	7
1377	RESISTOR	2-A-57	YES	0	(0, 0)	0	191	(-80, 40)	0
1378	RESISTOR	2-A-58		31	(20, -77)	1	2	(-70, 1)	-16
1379	RESISTOR	2-A-59	YES	0	(0, 0)	0	8	(80, -40)	0
1380	M79 5C0:01	2-A-60		17	(-20, 77)	-3	4	(-40, -40)	9
1381	M93 6P8W	2-B-1		219	(-80, 40)	213		SAME	
1382	M93 6P8 SP	2-B-2		215	(-80, 40)	212		SAME	
1383	M93 6P9W	2-B-3		207	(-70, 1)	207		SAME	
1384	M93 6P9 SP	2-B-4		158	(-80, 40)	159		SAME	
1385	M93 6P10W	2-B-5		219	(-80, 40)	208	211	(-70, 1)	217
1386	M93 6P11W	2-B-6		182	(-70, 1)	180		SAME	
1387	M92 8P8W	2-B-7		74	(-50, -29)	69	70	(-40, -40)	72
1388	M92 8P8 5RH	2-B-8		122	(70, -1)	121		SAME	
1389	M92 8P8 5RD	2-B-9		112	(50, -79)	109		SAME	
1390	M92 8P8 5RL	2-B-10		294	(-80, 40)	288		SAME	
1391	M92 8P9W	2-B-11		258	(-80, 40)	255		SAME	
1392	M92 8P9 SP	2-B-12		182	(-80, 40)	184		SAME	
1393	M92 8P10W	2-B-13		219	(-70, 1)	213		SAME	
1394	M92 8P11W	2-B-14		145	(-70, 1)	139		SAME	
1395	M92 8P12W	2-B-15		164	(-70, 1)	161		SAME	
1396	M92 2P8W	2-B-16		79	(0, -69)	69		SAME	
1397	H85 9P17P (P)	2-B-17		111	(40, -80)	107		SAME	
1398	M92 2P8 SP	2-B-18		210	(70, -69)	194		SAME	
1399	B97P7MMS(C)	2-B-19		161	(-80, 40)	139		SAME	
1400	M92 3P9S	2-B-20		206	(-70, 1)	224		SAME	
1401	M92 3P9 2RH	2-B-21		53	(0, 69)	34	41	(50, 30)	33
1402	M92 3P9 2RD	2-B-22		131	(70, -69)	123		SAME	
1403	M92 3P9 2RL	2-B-23		283	(-80, 40)	286		SAME	
1404	M92 3P9 SP	2-B-24	YES	365	(-80, 40)	370		SAME	
1405	M92 3P10S	2-B-25		217	(-70, 1)	208		SAME	
1406	M92 3P11S	2-B-26		155	(-70, 1)	152		SAME	
1407	M92 3P12S	2-B-27		183	(-70, 1)	182		SAME	
1408	M91 6P8S	2-B-28		295	(-80, 40)	313		SAME	
1409	M91 6P8 2P	2-B-29		165	(-70, 1)	168		SAME	
1410	M91 6P8 5P	2-B-30		183	(-70, 1)	190		SAME	
1411	M91 6P9W	2-B-31		168	(-70, 1)	142		SAME	
1412	M91 6P9 SP	2-B-32		165	(-70, 1)	157		SAME	
1413	M91 6P9 7RL	2-B-33		156	(-70, 1)	150		SAME	
1414	M91 6P9 7RH	2-B-34		639	(0, 69)	-58	398	(80, -40)	251
1415	M91 6P9 7RD	2-B-35		44	(0, 69)	36	48	(50, 30)	40
1416	M91 6P10W	2-B-36	YES	3	(0, 69)	0	1	(80, -40)	-1
1417	M91 6P11W	2-B-37		215	(-70, 1)	214		SAME	
1418	M91 6P12W	2-B-38		188	(-70, 1)	187		SAME	
1419	H86 1P19P(HSU)	2-B-39		554	(80, -40)	567		SAME	
1420	H86 1P19P(HSL)	2-B-40	YES	0	(0, 0)	0	0	(80, -40)	0
1421	B64S IMMP(CUST)	2-B-41		47	(30, -79)	15	16	(50, -79)	31
1422	H71 9P15P(C)	2-B-42		363	(70, -69)	379		SAME	
1423	H71+9P(C)	2-B-43		323	(70, -69)	330		SAME	
1424	B64P8 SMFRV(BB)	2-B-44		28	(-10, -64)	19	33	(-70, 1)	26
1425	B64P8 SMFRD(BB)	2-B-45		159	(-80, 40)	160		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MAXIMUM MEASURED STRAIN: @ MOMENT (VERT, LAT)	@ MAXIMUM MEASURED STRAIN: PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MAXIMUM PREDICTED STRAIN: @ MOMENT (VERT, LAT)	@ MAXIMUM PREDICTED STRAIN: MEASURED STRAIN
1426	B64P8 SMFRH(BB)	2-B-46		98	(-80, 40)	100		SAME	
1427	M80S9S(SU)	2-B-47		127	(-60, 76)	125	126	(-70, 69)	125
1428	M80S9S(SL)	2-B-48		97	(-70, 69)	95	96	(-80, 40)	95
1429	H79 SS18P(FC)	2-B-49		71	(70, -69)	68		SAME	
1430	H79S20P(CU)	2-B-50		263	(-70, 69)	262	262	(-60, 76)	263
1431	RESISTOR	2-B-51		32	(0, 0)	0	3	(0, 69)	28
1432	RESISTOR	2-B-52		0	(0, 0)	0	2	(-80, 40)	0
1433	RESISTOR	2-B-53	YES	0	(0, 0)	0	18	(-80, 40)	0
1434	RESISTOR	2-B-54	YES	0	(0, 0)	0	17	(80, -40)	0
1435	RESISTOR	2-B-55		38	(0, 0)	0	3	(20, 57)	28
1436	RESISTOR	2-B-56		38	(0, 0)	0	3	(-30, 79)	-15
1437	RESISTOR	2-B-57		23	(0, 0)	0	3	(10, 64)	11
1438	RESISTOR	2-B-58		19	(0, 0)	0	3	(-40, 80)	-8
1439	RESISTOR	2-B-59	YES	0	(0, 0)	0	11	(-80, 40)	0
1440	H89P19(D)	2-B-60		18	(0, 0)	0	2	(70, -69)	-8
1441	287COW	1- -1		144	(-80, 40)	161		SAME	
1442	289COW	1- -2		152	(-80, 40)	152		SAME	
1443	291COW	1- -3		46	(-80, 40)	43		SAME	
1444	W91 9SMZO 1RL	1- -4	YES	41	(-50, 79)	31	33	(-70, 69)	39
1445	W91 9SMZO 1RD	1- -5		805	(-80, 40)	827		SAME	
1446	W91 9SMZO 1RV	1- -6		78	(50, -79)	69	75	(70, -69)	57
1447	M87COW	1- -7		251	(-80, 40)	256		SAME	
1448	M87S9 1P	1- -8		271	(-80, 40)	254	255	(-70, 69)	263
1449	M87S12	1- -9		235	(-70, 69)	234		SAME	
1450	M89COW	1- -10	YES	0	(0, 0)	0		SAME	
1451	M89S9 1P	1- -11		245	(-80, 40)	243	245	(-70, 69)	245
1452	M89S12	1- -12	YES	0	(0, 0)	0		SAME	
1453	M89P9 1P	1- -13		173	(-60, -16)	153	158	(-70, 1)	171
1454	M89P12	1- -14	YES	0	(0, 0)	0		SAME	
1455	M91COW	1- -15		299	(-80, 40)	149		SAME	
1456	M91S9 1P	1- -16		254	(-80, 40)	236		SAME	
1457	M91S12	1- -17		273	(-70, 69)	271		SAME	
1458	M93COW	1- -18	YES	0	(0, 0)	0		SAME	
1459	M93S12	1- -19		221	(-70, 69)	201		SAME	
1460	M93P12	1- -20	YES	0	(0, 0)	0		SAME	
1461	M97COW	1- -21		122	(-80, 40)	128		SAME	
1462	M97S12	1- -22		73	(-60, 76)	73		SAME	
1463	M97P12	1- -23		53	(-50, -29)	48	48	(-60, -16)	51
1464	M99COW	1- -24		117	(-80, 40)	123		SAME	
1465	M99S12	1- -25		61	(-70, 69)	63		SAME	
1466	M101COW	1- -26		108	(-80, 40)	99		SAME	
1467	M101S12	1- -27		104	(-80, 40)	107	108	(-70, 69)	104
1468	M101P12	1- -28	YES	0	(0, 0)	0		SAME	
1469	M103COW	1- -29		78	(-80, 40)	-2	3	(40, -80)	-38
1470	M103S11	1- -30		115	(-70, 69)	106	107	(-80, 40)	99
1471	M105COW	1- -31		113	(-80, 40)	103		SAME	
1472	M105S11	1- -32		136	(-80, 40)	131		SAME	
1473	M105P11	1- -33	YES	0	(0, 0)	0		SAME	
1474	M107S11	1- -34		90	(-80, 40)	88		SAME	
1475	M107COW	1- -35		167	(-80, 40)	166		SAME	
1476	F89CONA	1- -36		7	(-30, -49)	2	4	(-70, 1)	3
1477	I89COP	1- -37		143	(80, -40)	148		SAME	
1478	F93CONA	1- -38		49	(80, -40)	52		SAME	
1479	I93COP	1- -39	YES	0	(0, 0)	0		SAME	
1480	F97CONA	1- -40		54	(80, -40)	52		SAME	
1481	I97COP	1- -41		124	(80, -40)	122		SAME	
1482	F101CONA	1- -42		146	(80, -40)	158		SAME	
1483	I101COP	1- -43		55	(50, 30)	16	24	(80, -40)	37
1484	F105CONA	1- -44		143	(70, -69)	137	149	(80, -40)	141
1485	I105COP	1- -45		57	(-80, 40)	53		SAME	
1486	ASMZ79C120	1- -46		551	(-80, 40)	553		SAME	
1487	ASMZ79C112(RES)	1- -47		399	(-80, 40)	402		SAME	
1488	ASMZ87C315	1- -48		1654	(-80, 40)	1438		SAME	
1489	ASMZ87C308	1- -49		1578	(-80, 40)	1577		SAME	
1490	ASMZ87C300	1- -50		1399	(-80, 40)	1401		SAME	
1491	ASMZ87C293	1- -51		1208	(-80, 40)	1205		SAME	
1492	ASMZ87RVMF	1- -52		321	(-80, 40)	315		SAME	
1493	ASMZ87RDMF	1- -53		173	(60, 16)	157		SAME	
1494	ASMZ87RLMF	1- -54		127	(80, -40)	135		SAME	
1495	B92S7MZP(BM)	1- -55		51	(20, -77)	30	37	(-30, -49)	47
1496	B92S7MZS(BM)	1- -56		97	(-70, 1)	130	144	(-80, 40)	84
1497	RESISTOR	1- -57		5	(50, 30)	1	2	(80, -40)	3
1498	RESISTOR	1- -58		7	(-30, 79)	4	7	(-80, 40)	5
1499	RESISTOR	1- -59	YES	0	(0, 0)	0		SAME	
1500	H92P1(D)	1- -60		14	(-40, 80)	-1	2	(70, -69)	-8

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1501	B98COMMS	1-A- 1		407	(-80, 40)	394		SAME	
1502	B98COMMP	1-A- 2		174	(80,-40)	192		SAME	
1503	B98P4MMP	1-A- 3		22	(60, 16)	30	35	(80,-40)	16
1504	B98P4MMS	1-A- 4	YES	0	(0, 0)	0		SAME	
1505	B98P9MMP	1-A- 5		129	(-80, 40)	123		SAME	
1506	B98P9MMS	1-A- 6		93	(-40,-40)	74	119	(-80, 40)	58
1507	B98COMFP	1-A- 7		48	(-10, 74)	14	39	(70, -1)	14
1508	B98COMFS	1-A- 8		51	(-10, 74)	9	59	(-80, 40)	-2
1509	B98P5MFP	1-A- 9		30	(50,-79)	4	22	(70, -1)	15
1510	B98P5MFS	1-A-10		68	(20, 57)	47	81	(70, -1)	60
1511	B98P6FIP	1-A-11		29	(-10, 74)	23	34	(-70, 69)	5
1512	B98COFIS	1-A-12	YES	0	(0, 0)	0		SAME	
1513	B98COFIP	1-A-13		25	(0, 69)	5	5	(10, 64)	-4
1514	B98P6FIS	1-A-14		43	(0,-69)	2	22	(-80, 40)	6
1515	B98S4MMP	1-A-15		49	(70,-69)	55	61	(80,-40)	45
1516	B98S4MMS	1-A-16		111	(-80, 40)	120		SAME	
1517	B98P8MMP	1-A-17		36	(20, 57)	29	56	(70, -1)	32
1518	B98S8MMS	1-A-18		71	(-20,-57)	40	41	(-10,-64)	63
1519	B98S3MFP	1-A-19		26	(-40, 80)	5	8	(-80, 40)	16
1520	B98S4MFS	1-A-20		37	(0, 69)	5	24	(80,-40)	3
1521	B98S6FIP	1-A-21		22	(-20, 77)	5	11	(-80, 40)	-1
1522	B98S6FIS	1-A-22		33	(0, 69)	14	26	(-70, 69)	7
1523	B98P 2HHRH	1-A-23		93	(-80, 40)	109		SAME	
1524	B98P 2HHRD	1-A-24		82	(80,-40)	44		SAME	
1525	B98P 2HHRV	1-A-25		18	(20, 57)	2	17	(-70, 69)	-12
1526	B98P7IIRD	1-A-26		76	(-30, 79)	51	81	(-70, 69)	59
1527	B98P7IIRV	1-A-27		111	(-70, 1)	119	133	(-80, 40)	111
1528	B98P7IIRH	1-A-28		119	(-80, 40)	121		SAME	
1529	B98P11 5FIRV	1-A-29		78	(60,-76)	53	66	(80,-40)	53
1530	B98P11 5FIRD	1-A-30		220	(80,-40)	217		SAME	
1531	B98P11 5FIRH	1-A-31		174	(-80, 40)	183		SAME	
1532	B98P11 9FFRV	1-A-32		54	(-20, 77)	44	47	(-50, 79)	42
1533	B98P11 9FFRD	1-A-33		209	(80,-40)	196		SAME	
1534	B98P11 9FFRH	1-A-34		37	(40, 40)	33	38	(0, 69)	27
1535	B98S7IIRH	1-A-35		92	(-40,-40)	40	76	(-80, 40)	70
1536	B98S7IIRD	1-A-36		74	(-50, 79)	59	66	(-70, 69)	64
1537	B98S7IIRV	1-A-37		36	(-10,-64)	23	24	(-30,-49)	32
1538	B98S11 5FIRH	1-A-38		127	(-80, 40)	108	116	(-70, 1)	119
1539	B98S11 5FIRD	1-A-39		167	(70,-69)	92	115	(80,-40)	91
1540	B98S11 5FIRV	1-A-40	YES	0	(0, 0)	0	155	(-80, 40)	0
1541	B98S11 9FFRH	1-A-41		75	(30,-79)	88	92	(50,-79)	69
1542	B98S11 9FFRD	1-A-42		196	(80,-40)	197		SAME	
1543	B98S11 9FFRV	1-A-43		29	(30,-79)	29	34	(60,-76)	25
1544	B98S10MFS	1-A-44		132	(30,-79)	143	173	(70,-69)	111
1545	B98S10MFP	1-A-45		89	(-10, 74)	47	55	(30, 49)	39
1546	H100P20PIFC1	1-A-46		630	(-70, 69)	647		SAME	
1547	ASMM77C1SF	1-A-47		779	(-80, 40)	780		SAME	
1548	ASMM77C2SF	1-A-48		25	(0,-69)	14	20	(-60,-16)	13
1549	ASMM77C3SF	1-A-49		330	(-70, 69)	326		SAME	
1550	ASMM77C4SF	1-A-50		307	(-70, 69)	295		SAME	
1551	ASMM77C5SF	1-A-51		513	(-80, 40)	510		SAME	
1552	ASMM77C1SA	1-A-52		410	(-70, 69)	425		SAME	
1553	ASMM77C2SA	1-A-53		431	(-70, 69)	429		SAME	
1554	ASMM77C3SA	1-A-54		210	(-60,-16)	55	60	(-70, 1)	109
1555	ASMM77C4SA	1-A-55		695	(-70, 69)	700		SAME	
1556	ASMM77C5SA	1-A-56		435	(-60, 76)	436	436	(-70, 69)	433
1557	ASMM77P3SA0 5	1-A-57		784	(-80, 40)	788		SAME	
1558	ASMM77P3SA1 5	1-A-58		540	(-80, 40)	539		SAME	
1559	ASMM77P3SA3 0	1-A-59	YES	0	(0, 0)	0		SAME	
1560	H103S19(D)	1-A-60		307	(-70, 69)	300		SAME	
1561	B108P9MFP	1-B- 1		22	(-70, 69)	22		SAME	
1562	B108COMMS	1-B- 2		25	(80,-40)	17		SAME	
1563	B108P4MMP	1-B- 3		54	(-70, 69)	48	51	(-80, 40)	46
1564	B108P4MMS	1-B- 4	YES	0	(0, 0)	0		SAME	
1565	B108P8MMP	1-B- 5		31	(-80, 40)	33		SAME	
1566	B108P8MMS	1-B- 6		42	(0, 0)	0	34	(-80, 40)	17
1567	RESISTOR	1-B- 7		49	(10, 64)	21	28	(-40, 80)	15
1568	B108COMFS	1-B- 8		35	(-60, 76)	30	35	(-80, 40)	31
1569	B108P4MFP	1-B- 9		53	(-80, 40)	52	52	(-70, 69)	51
1570	B108P4MFS	1-B-10		50	(80,-40)	59		SAME	
1571	RESISTOR	1-B-11		38	(0, 0)	0	3	(-30, 79)	-14
1572	B108COFIS	1-B-12	YES	0	(0, 0)	0		SAME	
1573	B108P6FIP	1-B-13		29	(-60, 76)	27	28	(-70, 69)	27
1574	B108P6FIS	1-B-14		8	(60,-76)	6		SAME	
1575	B108S4MMP	1-B-15		54	(-80, 40)	54		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
1576	B108S4MMS	1-B-16		52	(-70, 69)	41	44	(-80, 40)	50
1577	B108S8MMP	1-B-17		34	(-80, 40)	32		SAME	
1578	B108S8MMS	1-B-18		21	(-80, 40)	22		SAME	
1579	B108S4MFP	1-B-19		62	(-80, 40)	46		SAME	
1580	B108S4MFS	1-B-20		64	(80, -40)	67		SAME	
1581	B108S6FIP	1-B-21		19	(-70, 1)	21	23	(-80, 40)	19
1582	B108S6FIS	1-B-22		13	(0, 69)	8	16	(70, -1)	4
1583	B108P 2NHRH	1-B-23		424	(-80, 40)	415		SAME	
1584	B108P 2NHRD	1-B-24		500	(-80, 40)	471		SAME	
1585	B108P 2NHRV	1-B-25	YES	0	(0, 0)	0		SAME	
1586	B108P7IIRV	1-B-26		41	(80, -40)	51		SAME	
1587	B108P7IIRD	1-B-27		43	(50, -75)	33		SAME	
1588	B108P7IIRH	1-B-28		242	(-80, 40)	241		SAME	
1589	B108P10 5FIRV	1-B-29		124	(80, -40)	120		SAME	
1590	B108P10 5FIRD	1-B-30		288	(80, -40)	282		SAME	
1591	B108P10 5FIRH	1-B-31		65	(-70, 1)	58	62	(-80, 40)	65
1592	B108P10 9FFRV	1-B-32		32	(10, 64)	19	34	(-60, 76)	30
1593	B108P10 9FFRD	1-B-33		206	(80, -40)	206		SAME	
1594	B108P10 9FFRH	1-B-34		27	(70, -69)	22		SAME	
1595	B108S7IIRH	1-B-35		190	(-80, 40)	191		SAME	
1596	B108S7IIRD	1-B-36		375	(30, 49)	19	23	(60, 16)	361
1597	B108S7IIRV	1-B-37		38	(70, -1)	37	43	(80, -40)	38
1598	B108S10 5FIRH	1-B-38		151	(-80, 40)	159		SAME	
1599	B108S10 5FIRD	1-B-39		140	(70, 1)	140		SAME	
1600	B108S10 5FIRV	1-B-40		279	(70, -69)	224	245	(80, -40)	162
1601	B108S10 9FFRH	1-B-41		63	(30, 79)	67		SAME	
1602	B108S10 9FFRD	1-B-42		184	(60, -76)	181		SAME	
1603	B108S10 9FFRV	1-B-43		100	(50, -75)	101		SAME	
1604	B108P9MFS	1-B-44		60	(-80, 40)	59		SAME	
1605	APMM77C1PA	1-B-45		366	(-40, -40)	358	359	(-30, -49)	362
1606	APMM77C2PA	1-B-46		427	(-50, -29)	422	422	(-40, -40)	425
1607	APMM77C3PA	1-B-47		380	(-50, -29)	381		SAME	
1608	APMM77C4PA	1-B-48		781	(-80, 40)	770		SAME	
1609	APMM77C5PA	1-B-49		221	(-60, -16)	204		SAME	
1610	APMM77P3PA0 5	1-B-50		261	(-60, -16)	255		SAME	
1611	APMM77P3PA1 5	1-B-51		232	(-60, -16)	222		SAME	
1612	APMM77P3PA3 0	1-B-52		218	(-70, 1)	218		SAME	
1613	APMM77C1PF	1-B-53		414	(-80, 40)	413		SAME	
1614	APMM77C2PF	1-B-54		441	(-80, 40)	437		SAME	
1615	APMM77C3PF	1-B-55		663	(-80, 40)	671		SAME	
1616	APMM77C4PF	1-B-56		263	(-60, -16)	263		SAME	
1617	APMM77C5PF	1-B-57		814	(-80, 40)	823		SAME	
1618	ASM279C135	1-B-58		714	(-80, 40)	714		SAME	
1619	ASM279C127	1-B-59	YES	0	(0, 0)	0		SAME	
1620	H108FF1D1	1-B-60		14	(-20, 77)	1	1	(-50, 79)	8
1621	M95P10W	O- -1		110	(-70, 1)	104		SAME	
1622	M95P7W	O- -2		201	(-80, 40)	192		SAME	
1623	M95P2W	O- -3		143	(-80, 40)	139		SAME	
1624	M95S0W	O- -4	YES	0	(0, 0)	0		SAME	
1625	M95S2W	O- -5		154	(-80, 40)	148		SAME	
1626	M95S4W	O- -6		144	(-80, 40)	135		SAME	
1627	M95S6W	O- -7		193	(-70, 69)	173	184	(-80, 40)	189
1628	M95S8W	O- -8		235	(-80, 40)	227		SAME	
1629	M95S10W	O- -9		30	(-20, 77)	19	19	(-10, 74)	28
1630	M95S10 SP	O- -10		56	(-60, 76)	47	48	(-70, 69)	54
1631	M95S11W	O- -11		45	(0, 69)	24	33	(-50, 79)	39
1632	M95S11 SP	O- -12		54	(-70, 69)	66		SAME	
1633	M95S12W	O- -13		56	(-40, 80)	43	46	(-60, 76)	52
1634	B92P9 SP(BB)	O- -14		11	(0, 69)	5	12	(70, -1)	4
1635	H95S1W	O- -15		116	(80, -40)	132		SAME	
1636	H95S4W	O- -16		106	(80, -40)	121		SAME	
1637	H95P4W	O- -17		113	(80, -40)	125		SAME	
1638	H95S5W	O- -18		90	(80, -40)	101		SAME	
1639	H95S7W	O- -19		94	(80, -40)	101		SAME	
1640	H95P7W	O- -20		114	(80, -40)	123		SAME	
1641	H95S9W	O- -21		67	(70, -1)	72		SAME	
1642	H95S11W	O- -22	YES	0	(0, 0)	0		SAME	
1643	H95P11W	O- -23		85	(70, -69)	89		SAME	
1644	H95S12W	O- -24		51	(70, -1)	59		SAME	
1645	H95S13W	O- -25		50	(70, -1)	54	54	(60, 16)	48
1646	H95P13W	O- -26	YES	0	(0, 0)	0		SAME	
1647	H95S15W	O- -27		55	(-30, 79)	42		SAME	
1648	H95S16 SP	O- -28		93	(-60, 76)	80	81	(-70, 69)	91
1649	H95P16 SP	O- -29		45	(-10, -64)	43		SAME	
1650	H95S17W	O- -30		89	(-70, 69)	81		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT,LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT,LAT)	MEASURED STRAIN
1651	H95S17W	0- -31		126	(-70, 69)	122		SAME	
1652	H95S19W	0- -32		86	(-70, 1)	87		SAME	
1653	M80S9S(BMSU)	0- -33		158	(-80, 40)	138		SAME	
1654	B92SMM7(BMSL)	0- -34		412	(-80, 40)	438		SAME	
1655	H49COP	0- -35	YES	0	(0, 0)	0		SAME	
1656	H61COP	0- -36	YES	0	(0, 0)	0		SAME	
1657	H73COP	0- -37	YES	0	(0, 0)	0		SAME	
1658	H75COP	0- -38		468	(80,-40)	460		SAME	
1659	H77COP	0- -39	YES	0	(0, 0)	0		SAME	
1660	H79COP	0- -40		404	(80,-40)	407		SAME	
1661	H81COP	0- -41		364	(80,-40)	368		SAME	
1662	H83COP	0- -42	YES	0	(0, 0)	0		SAME	
1663	H85COP	0- -43		351	(80,-40)	325		SAME	
1664	H87COP	0- -44		250	(80,-40)	268		SAME	
1665	H91COP	0- -45		206	(80,-40)	200		SAME	
1666	H93COP	0- -46		259	(70,-69)	167	187	(80,-40)	253
1667	H95COP	0- -47		347	(80,-40)	504		SAME	
1668	H97COP	0- -48	YES	0	(0, 0)	0		SAME	
1669	H99COP	0- -49		37	(80,-40)	39		SAME	
1670	H101COP	0- -50		39	(0, 69)	1	51	(80,-40)	29
1671	H103COP	0- -51	YES	0	(0, 0)	0		SAME	
1672	H105COP	0- -52		35	(80,-40)	43		SAME	
1673	H107COP	0- -53		21	(-80, 40)	20		SAME	
1674	H89COP	0- -54	YES	0	(0, 0)	0		SAME	
1675	H86SFF(C)	0- -55		172	(-40, 80)	162		SAME	
1676	B80PMMRH	0- -56		14	(0, 0)	0	12	(70,-69)	4
1677	B80PMMRD	0- -57		55	(0, 69)	40	45	(40, 40)	29
1678	B80PMMRV	0- -58	YES	225	(-80, 40)	228		SAME	
1679	B80P19@18(FC)	0- -59		170	(-40,-40)	167		SAME	
1680	H96S19(D)	0- -60	YES	45	(0, 0)	0	3	(-70, 1)	0
1681	B92P7MMS	0-A- 1		273	(-80, 40)	222		SAME	
1682	B92P7MMP	0-A- 2		96	(-60, 76)	103	109	(-70, 69)	92
1683	B92S8MMS	0-A- 3		263	(-70, 1)	239	241	(-80, 40)	261
1684	B92S8MMP	0-A- 4	YES	0	(0, 0)	0		SAME	
1685	B86CDMMP	0-A- 5		131	(-80, 40)	128		SAME	
1686	B86CDMMS	0-A- 6		132	(80,-40)	134		SAME	
1687	B86P7MMP	0-A- 7		102	(-80, 40)	101		SAME	
1688	B86P7MMS	0-A- 8		72	(80,-40)	77		SAME	
1689	B80P1MMS	0-A- 9		56	(-80, 40)	50	50	(-70, 69)	54
1690	B80P1MMP	0-A-10		21	(0, 69)	9	10	(30, 49)	5
1691	F82P11M	0-A-11		57	(-40,-40)	54	57	(-60,-16)	53
1692	H80P17(LF)	0-A-12		67	(-20,-57)	65	66	(-30,-49)	67
1693	B86P20(C)	0-A-13		25	(0, 69)	21	21	(-10, 74)	23
1694	B86P11MMRH	0-A-14		23	(0, 69)	12	14	(40, 40)	17
1695	B86P11MMRD	0-A-15		34	(0, 69)	23	25	(40, 40)	22
1696	B86P11MMRV	0-A-16		28	(-60, 76)	17	18	(-40, 80)	26
1697	B86P11MP(HSU)	0-A-17		94	(0, 69)	21	23	(30, 49)	26
1698	B86P11MP(HSL)	0-A-18		39	(-60, 76)	28	29	(-70, 69)	35
1699	F86P11P(C)	0-A-19		31	(-70, 1)	19		SAME	
1700	B80P11F1P(BB)	0-A-20		60	(80,-40)	64		SAME	
1701	H80P15@14P(LF)	0-A-21		245	(60,-76)	248		SAME	
1702	B86P9W(C)	0-A-22	YES	0	(0, 0)	0		SAME	
1703	B86P8 5P(BB)	0-A-23		12	(0, 0)	0	4	(-70, 1)	4
1704	I80P2P(C)	0-A-24		54	(-70, 69)	48		SAME	
1705	B86S7MMP(C)	0-A-25		14	(0,-69)	11	12	(-40,-40)	10
1706	H85 9S19P(C)	0-A-26	YES	0	(0, 0)	0		SAME	
1707	B80S9 5MFRH	0-A-27		40	(0, 69)	13	28	(-70, 69)	38
1708	B80S9 5MFRD	0-A-28		36	(-60, 76)	28	30	(-70, 69)	32
1709	B80S9 5MFRV	0-A-29		40	(80,-40)	46		SAME	
1710	B92SMM7(BMSU)	0-A-30		50	(60, 16)	50		SAME	
1711	M80S9S(SL)	0-A-31	YES	0	(0, 0)	0		SAME	
1712	H85 9S6 5P(HSU)	0-A-32		162	(-60, 76)	158		SAME	
1713	H85 9S6 5P(HSL)	0-A-33		336	(80,-40)	335		SAME	
1714	M86S3S(SU)	0-A-34	YES	0	(0, 0)	0		SAME	
1715	M86S3S(SL)	0-A-35		92	(0, 0)	0	88	(-80, 40)	40
1716	M86 1S3 5P(HSI)	0-A-36		124	(-70, 69)	118	120	(-60, 76)	124
1717	M86 1S3 5P(HSO)	0-A-37		134	(-70, 1)	130		SAME	
1718	B86S11 9MMRH	0-A-38		27	(70,-69)	24	24	(80,-40)	21
1719	B86S11 9MMRD	0-A-39		117	(80,-40)	99		SAME	
1720	B86S11 9MMR	0-A-40		48	(80,-40)	59		SAME	
1721	H86 1S17 5P(HSU)	0-A-41		534	(80,-40)	538		SAME	
1722	H86 1S17 5P(HSL)	0-A-42		634	(-80, 40)	628		SAME	
1723	H86 1S6 5P(HSU)	0-A-43		308	(80,-40)	314		SAME	
1724	H86 1S6 5P(HSL)	0-A-44		250	(-70, 69)	244		SAME	
1725	H88 5S19P(CU)	0-A-45		216	(-70, 69)	209		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN: MEASURED MAXIMUM	@ MOMENT (VERT, LAT)	PREDICTED STRAIN	@ MAXIMUM PREDICTED STRAIN: PREDICTED MAXIMUM	@ MOMENT (VERT, LAT)	MEASURED STRAIN
1726	H88 5S19P(CL)	0-A-46		167	(-70, 69)	161		SAME	
1727	M86 1S6S(U)	0-A-47		224	(-80, 40)	215		SAME	
1728	M86 1S6S(L)	0-A-48		243	(-80, 40)	269		SAME	
1729	H86 1P8 5P(HSU)	0-A-49		230	(80, -40)	232		SAME	
1730	H86 1P8 5P(HSL)	0-A-50		159	(-60, -16)	151	152	(-70, 1)	159
1731	B92S7M2S(BM)	0-A-51		89	(-70, 1)	103	104	(-80, 40)	66
1732	B92S7M2P(BM)	0-A-52		18	(0, -69)	8	13	(60, -76)	12
1733	B86S3MMP(BM)	0-A-53		59	(-80, 40)	59		SAME	
1734	B86S3MMS(BM)	0-A-54		105	(80, -40)	78		SAME	
1735	B86S3M2P(BM)	0-A-55		8	(-50, 79)	2	2	(0, 69)	-10
1736	B86S3M2S(BM)	0-A-56		63	(-80, 40)	62		SAME	
1737	B80S9MMS(BM)	0-A-57		33	(-70, 1)	27		SAME	
1738	B80S9MMP(BM)	0-A-58	YES	104	(50, 30)	90	107	(70, -1)	104
1739	B80S9M2S(BM)	0-A-59		73	(70, -69)	56	61	(80, -40)	53
1740	W89P2M2(D)	0-A-60		44	(70, -1)	41	48	(80, -40)	31
1741	H78S20P(CU)	0-B- 1		303	(-70, 69)	301		SAME	
1742	H79S20P(CL)	0-B- 2		298	(-70, 69)	299		SAME	
1743	B80S11MMP(C)	0-B- 3		49	(-70, 69)	37	40	(-80, 40)	47
1744	M80S11P(C)	0-B- 4	YES	0	(0, 0)	0		SAME	
1745	H79 5S20P(FC)	0-B- 5		117	(-70, 1)	106		SAME	
1746	H79 5S20P(AC)	0-B- 6		62	(-60, -16)	56		SAME	
1747	H79 5S20P(ACL)	0-B- 7		51	(-60, -16)	44	47	(-40, -40)	47
1748	B64COMMP(C)	0-B- 8		35	(0, 0)	0	16	(-70, 1)	9
1749	B56S8 SMFRV(BB)	0-B- 9		26	(0, 0)	0	15	(70, -69)	-12
1750	B56S8 SMFRD(BB)	0-B-10		45	(-70, 69)	40	40	(-80, 40)	35
1751	B56S8 SMFRH (BB)	0-B-11		31	(50, -79)	16	16	(30, -75)	31
1752	B56P8 SMFRV(BB)	0-B-12		56	(20, -77)	42	47	(50, -79)	45
1753	B56P8 SMFRD(BB)	0-B-13		57	(0, -69)	40	43	(-30, -49)	41
1754	B56P8 SMFRH(BB)	0-B-14		31	(20, -77)	19	22	(-20, -57)	29
1755	M64P8S(SUA)	0-B-15		101	(30, -79)	80	110	(70, -69)	57
1756	M64P8S(SLA)	0-B-16		43	(-70, 1)	47		SAME	
1757	M64P8S(SUF)	0-B-17		33	(10, -74)	19	20	(-10, -64)	31
1758	M64P8S(SLF)	0-B-18	YES	144	(-80, 40)	114		SAME	
1759	B64P11F1P(CU)	0-B-19		36	(50, 30)	24	31	(80, -40)	28
1760	B64P11F1P(CL)	0-B-20		101	(80, -40)	109		SAME	
1761	H61.2S20P(CM)	0-B-21		543	(-70, 69)	542		SAME	
1762	H61 2S20P(CL)	0-B-22	YES	0	(0, 0)	0		SAME	
1763	M60P9 5P(C)	0-B-23		255	(-60, -16)	245	247	(-70, 1)	255
1764	H58.6P20P(C)	0-B-24		260	(-20, -57)	248	249	(-30, -49)	250
1765	H61 3P20P(C)	0-B-25		234	(-30, -49)	237		SAME	
1766	H58 6P20P(CU)	0-B-26	YES	0	(0, 0)	0		SAME	
1767	H58 6P20P(CL)	0-B-27		240	(-30, -49)	238		SAME	
1768	M59 5P6P(C)	0-B-28		33	(-80, 40)	27		SAME	
1769	B80S9M2P(BM)	0-B-29		21	(70, -69)	21	22	(80, -40)	19
1770	B64P8MMP(BM)	0-B-30		78	(0, -69)	28	35	(50, -79)	64
1771	M74S5P(C)	0-B-31		340	(-80, 40)	331		SAME	
1772	M73S5P(C)	0-B-32		347	(-80, 40)	350		SAME	
1773	M67S5P(C)	0-B-33		456	(-80, 40)	459		SAME	
1774	M67P5P(UC)	0-B-34		283	(-80, 40)	280	280	(-70, 1)	281
1775	M67 2P5P(UC)	0-B-35		307	(-80, 40)	302		SAME	
1776	M69P5P(LP)	0-B-36		48	(70, -1)	40	42	(50, 30)	42
1777	M60P6P(C)	0-B-37		316	(-70, 1)	314		SAME	
1778	H94S20P(FC)	0-B-38		19	(-60, -16)	8	16	(20, -77)	11
1779	M77P10 1P	0-B-39		351	(-70, 1)	349		SAME	
1780	H94S20P(AC)	0-B-40		39	(70, -69)	44		SAME	
1781	H94S16 5P(CU)	0-B-41		12	(-30, -49)	2	6	(60, -76)	0
1782	H94S16 5P(CL)	0-B-42		30	(-50, -29)	23	24	(70, 1)	30
1783	H91P19P(C)	0-B-43		35	(-70, 69)	18	20	(-50, 79)	35
1784	M79S8 5P	0-B-44		280	(-70, 69)	265		SAME	
1785	B86P9.1P	0-B-45		65	(-80, 40)	66		SAME	
1786	H91P19P(AC)	0-B-46		34	(0, 69)	24	37	(60, 16)	33
1787	H91P19P(FC)	0-B-47		31	(60, -76)	26	26	(50, -79)	29
1788	H97 9P14P(LF)	0-B-48		42	(-20, 77)	21	27	(30, 49)	21
1789	H101P20P(AC)	0-B-49		63	(-80, 40)	63		SAME	
1790	H80P19018(FC)	0-B-50		188	(-50, -29)	182		SAME	
1791	H79 5P18P(CU)	0-B-51		152	(20, -77)	152		SAME	
1792	H79 5P18P(CL)	0-B-52		150	(20, -77)	152	152	(10, -74)	150
1793	M63 9P13S(C)	0-B-53		265	(-80, 40)	274		SAME	
1794	H79 9P15P(C)	0-B-54		169	(40, -80)	171	172	(50, -79)	167
1795	B64P12 9P(LP)	0-B-55		120	(-60, -16)	81	84	(-50, -29)	114
1796	B64P12 9P(SC)	0-B-56		50	(80, -40)	50		SAME	
1797	H65P22P(C)	0-B-57		53	(10, 64)	31	47	(70, -1)	37
1798	B64P 1MMP(C)	0-B-58	YES	95	(-80, 40)	94		SAME	
1799	B64S 1MMP(C)	0-B-59		32	(10, -74)	19	19	(20, -77)	30
1800	B108P1MMP(D)	0-B-60	YES	16	(-50, 79)	-2	3	(20, -77)	0

APPENDIX C

STRAIN DATA PLOTS

The following is a discussion of the plots of strain data for several specific structural sections of the model. Appropriate strain data from rigid vinyl model tests, the finite element analysis, and beam bending theory are included for comparative purposes.

There are five basic categories of strain data plots. These are:

1. Longitudinal distributions of longitudinal bending strain.
2. Transverse distributions of longitudinal bending strain.
3. In-plane stress concentrations and misalignment strain in the bulkheads.
4. Stress concentrations due to openings in the Main Deck and 01 Deck.
5. Stress concentrations in the superstructure hull due to openings and discontinuities.

LONGITUDINAL DISTRIBUTION OF LONGITUDINAL BENDING STRAINS

Probably the most dramatic and revealing and yet well-behaved strain-data plots are those of longitudinal distributions of longitudinal bending strains. Where applicable, the plots include finite element data and rigid vinyl model data.*

Figure C.1 shows small magnitudes of strain along the centerline of the 02 Deck. Since these gages are at the centerline (on the web of the centerline stiffener), lateral loading has little effect on the strains. Included on this plot are strains at gage locations off the centerline. A quick look shows considerably higher strains further off the centerline (outboard) and, as will be shown later, plots of transverse distributions indicate this same phenomena. These low centerline strains are probably due to the relatively short length of the 02 Deck even though it is near midships. Shear in the deckhouse sidewalls caused the strain values in the 02 Deck to increase nearer the house wall.

In general, the strains measured by the gages on the webs of the 01 Deck centerline stiffeners are well behaved and the magnitudes are predictable. Midship strains at 80% maximum BM are nominally 500μin./in. as shown in Figure C.2. However, the

---

*Rodd, James L. et al., "Rigid Vinyl Model Development of Structural Modification for the Aluminum Ship Evaluation Model (ASEM)," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

gage at Frame 61 indicates a value about 25% higher than would be expected. At first glance, this data point might be neglected; however, upon looking at other gages in this area (as in Figure C.3) strains are indeed higher than would be expected. Strain readings from Tests 1, 3, and 4 were of similar magnitude, since lateral moments of Tests 3 and 4 have little effect on centerline gage strain readings.

The Main Deck centerline gages, which are located on the web and near the neutral axis of the centerline stiffener, indicate strains of near 300μin./in. near midships at 80% maximum BM (see Figure C.4). A slight increase in strain reading over what might be expected in the vicinity of Bulkhead 32 was noted. Also, the strains increased aft of Frame 103 rather than approach zero as would be anticipated. This may be related to a shift in the neutral axis location of the model due to the effect of longitudinal bulkheads in the aft end of the model. This is even more evident in the plot of the platform deck strains at the centerline.

The longitudinal strain distributions due to longitudinal bending stresses near the gunwales and under the deckhouse side wall are not as well behaved as might be expected. Figures C.5 through C.8 show strain data plots at the following locations: (1) at the port gunwale, (2) along the length of the port deckhouse side wall, (3) at the starboard gunwale, and (4) along the length of the starboard deckhouse side wall, respectively. The gages along the deckhouse side wall are located 1 in. outboard of the wall, and on the underside of the main deck (a longitudinal girder is located directly beneath the wall.) The gunwale gages are on a 2-in. wide, 1/4-in. thick doubler that is welded to the deck and side shell. The 2-in. length dimension of the doubler is vertical relative to the main deck.

The longitudinal distributions of longitudinal bending strain data at the platform deck centerline is shown in Figure C.9. The platform deck is near the neutral axis of the model and, subsequently, the strain readings at 80% maximum BM are nominally less than 50μin./in. An increase in strain aft of Frame 80 is evident and is due to a shift in the neutral axis of the model. With the addition of longitudinal bulkheads, the neutral axis shifted below the platform deck level thus causing strains to increase as high as 150μin./in.

The inner bottom strain values for the longitudinal distribution at 80% maximum BM is shown in Figure C.10. The actual strains along the length are erratic relative to a smooth curve drawn through the data. This may be due in part to lower strains for gages located above transverse bulkheads (floors). Also, the portion of the inner bottom between Frame 69 1/3 and 74 2/3 was reinforced with syntactic foam, thereby partially explaining the very low strain reading at Frame 73. Near midships the maximum strain values during the static tests were about 300 μin./in.

Probably the most well behaved data of the longitudinal distributions are at the keel centerline. The gages were placed on the exterior of the flat bar keel and protected with a waterproof coating. At 80% maximum BM, strains near Bulkhead 32 are slightly higher than expected. At midships, the strain value appears to peak slightly above 600 μin./in. (see Figure C.11).

TRANSVERSE DISTRIBUTION OF LONGITUDINAL BENDING STRAINS

Five locations along the length of the model were chosen to show transverse distributions of longitudinal bending strains (these are often called "belts" throughout this report). The belts were at Frames 21, 45, 61, 73, and 95. If the model were longitudinally sectioned into eighths, Frame 21 would be about 1/8 the model length from Bulkhead 8. Frame 45 is about 3/8 the model length from Bulkhead 8; Frame 61 about 1/2 or near midships; Frame 73 about 5/8 and Frame 95 about 7/8 the model length. The sections at Frames 21 and 95 include only the main deck and hull. The section at Frame 45 includes the hull and both the 02 and 01 levels of the deckhouse. The sections at Frames 61 and 73 include the hull and 01 deck level (the 02 deck terminates at Bulkhead 56).

In general, for the instances of 80% maximum BM, the magnitude of strains for the 60° lag case and the 240° lag case increased near the edge of a deckhouse external deck. In most instances, the 60° lag condition created higher relative strains on the port side than did the 240° lag condition. Alternately, the 240° lag condition created higher relative strains on the starboard side. This was due to the relative phase shift in the vertical and lateral load components.

Belt 21

The strain distribution across the main deck noticeably dropped off near the starboard gunwale (see Figure C.12). Because of the lack of data for the port side,

a similar comparison could not be made for that side. However, upon examining the longitudinal distributions for the port and starboard gunwales, the order of strain magnitudes of gages in these two areas support this drop in strain. The strain distribution in the hull is linear except near the platform deck. The drop off in strain may be due to the V-shape of the hull at this section of the model. Since the neutral axis has probably shifted up, the stresses at the deck are less than at the keel. Also, there is a substantial decrease in the section near the gunwale. This phenomenon does not occur further aft where the model sections are more box-like.

Belt 49

The section of the model at Frame 49 includes both the 01 and 02 decks. As seen in Figure C.13, there is a noticeable drop in strain as the center of the 02 deck is approached. This is due to the short deck length and the shear in the deck-house wall. The strain distributions at the main deck and 01 deck are linear and averaged about 350 μin./in. and 450 μin./in. respectively. Of special interest is the strain distribution from the keel to the 02 deck. It is relatively linear from the keel to the main deck, with the lowest strain readings monitored at the platform deck level. It is obvious that the deckhouse is partially effective in picking up a portion of the load in the hull. Of questionable validity is the data point midway between the 01 deck and main deck. The drop in strain may be due to the effect of the access hatch opening immediately aft of the gage. The aftmost edge of the hatch coaming was located 21 in. forward of the gage. Also, Bulkhead 48 is located between the access hatch opening and gage.

Belt 61

The section at Frame 61 has the 01 deck as the uppermost deck, since the 02 deck terminates 50 in. forward of Frame 61 at Bulkhead 56. Both the 60° and 240° lag data at the 01 deck show similar characteristics (see Figure C.14). As the starboard or port edges of the 01 deck are approached, the strain increases significantly and strain data from gages located on the deeper girders (centerline, sixth port and starboard stiffeners outboard) were noticeably higher than for the remaining

stiffeners. The gage positioning probably resulted in the apparent discontinuities. The girders are 3 3/8-in. deep and the stiffeners are 1 3/8-in. deep with the longitudinal gages positioned about 1/2 to 3/4 in. below the bottom surface of the 01 deck for both girders and stiffeners. The gages on the girders were a good distance from the assumed neutral axis (N.A.) and the gages on the stiffeners were probably very close to the local N.A. Secondary bending effects may have resulted in higher strains in the deeper girders. Mentioned earlier were the very high strain readings near the 01 deck edges. This order of magnitude of strain (~1500 $\mu\varepsilon$ at 80") is also seen in a deckhouse side gage near the 01 deck.

Belt 73

The transverse distributions due to longitudinal bending at Frame 73 are similar to previously discussed belt data. The 01 deck strains are higher near the edges as shown in Figure C.15. The strain reading of the gage near the top of the starboard deckhouse sidewall is similar to strain readings at the 01 deck edge; and there is a significant drop off in strain results going down the wall to the main deck. The low strain reading midway down the wall may be due to the access hatch opening being just 30 in. aft of the gage. The main deck gages show predictable strain readings, with a slight increase in strain at the starboard edge.

Belt 95

As with Frame 21, this section of the model does not contain deckhouse structure. The strain gradients at the main deck are not as well behaved as they are for other belts (see Figure C.16). However, as expected, strains at maximum BM were no more than 200 $\mu\varepsilon$.

IN PLANE STRESS CONCENTRATIONS

The majority of transverse bulkheads in the hull and deckhouse superstructure were extensively strain gaged to monitor any in-plane stress concentrations and any misalignment strains in the bulkheads during static testing. A substantial amount of data was obtained for Bulkheads 8, 16, 24, 56, 64, 80, 86, 92, 98, and 108.

The instrumentation associated with Bulkheads 32, 40, and 48 was malfunctioning during the static tests; subsequently no strain data were obtained. The bulkheads are the only component of the model not scaled by one-third. The scaled thickness was doubled to prevent premature buckling.

The majority of bulkhead strain gages read only low to moderate strain values during the tests. Excluding the channels associated with Bulkheads 32, 40, and 48, only a few were open, shorted, or erratic. Bulkhead strain data are shown plotted in Figures C.17 through C.29.

BULKHEAD INSTRUMENTATION

Bulkhead instrumentation was located to basically monitor two types of structural phenomena. Gages were located on the flanges of selected stiffeners and on the plating on the opposite side of the selected stiffeners. A major discrepancy in the magnitude of strain would imply local bending was occurring at that location. If a number of channels indicated a major discrepancy, then overall buckling of the bulkhead could have been occurring.

Gages were also located at the "hard points" on the bulkheads near the hull plating (port and starboard). This included gages at the platform deck level (upper chine), near the lower chine, near the inner bottom level, and at the keel.

The strain patterns and distribution in the bulkheads were largely a reflection of the method used to apply the loads to the model. That is, loads were directly transferred from the moveable load frames, through the rubber pads surrounding the bulkheads and then into the bulkhead plating and stiffeners.

In almost all instances, gages near the deck/rubber pad intersection read higher than those nearer the center of the bulkhead. Also, these gages showed somewhat higher strains in the stiffeners than the plate, as might be expected, since a portion of the load is also going through the plate material between stiffeners. Of the gages near the deck, the centerline gage often read the highest strain.

The strain gage rosettes located at the hard points were moderate-to-high in magnitude at the forward and aft ends of the model. The high strains in the forward bulkheads are probably related to the soft chine and high deadrise in the hull.

Except at Bulkhead 108, from Bulkhead 80 and aft, the strains at the rosette locations were quite low. The shape of the hull is much more "boxlike" along this portion of the model with two hard chines and a low deadrise. The higher strains at the hard points on Bulkhead 108 may be due to the method of loading since the load frame is bolted directly to the model. Also for Bulkhead 108, the strains near the uppermost exterior deck are quite small, which is not the case for most other bulkheads.

In general, no major bulkhead structural problems were detected as the result of the static tests. The loads were transferred into the hull through the load frames and bulkheads as expected.

STRESS CONCENTRATIONS AND DISCONTINUITIES

A number of areas in the hull and deckhouse were instrumented as areas of stress concentrations and locally high strains during the static tests. Any strain readings corresponding to a stress of 20 ksi or more at the 80% load level could potentially create early fatigue cracking problems during the model's cyclic testing. The model sections which were instrumented included numerous access holes in the deckhouse sides (both port and starboard), 01 deck access holes, main deck access holes, the port-aft corner of the deckhouse (Bulkhead 92 below the main deck) and the forward corners of the deckhouse (Bulkhead 32).

There are three access holes in the 01 deck and all three were instrumented with gages positioned on the outboard portion of the coaming. In addition, the access hole at Frame 38 1/2 had a rosette and three additional gages adjacent to the rosette. The strain in the 01 deck at Frame 38 1/2 is nominally 150 $\mu\varepsilon$; however, the gage at the aft outboard corner indicates a significantly higher strain (see Figure C.30). Also, the strain gradient drops off in magnitude as the deckhouse side is approached. Figure C.31 shows high strains in the corner of the access hole coaming at Frame 46. Nominal strains at Frame 46 are about 300 $\mu\varepsilon$ at 80%; however, a value of over 1200 $\mu\varepsilon$ was measured during the cyclic testing. The gage at the corner of Frame 52 access hole indicates a strain only slightly more than the nominal strain of 400 $\mu\varepsilon$ (see Figure C.32, locations A and B).

Five of the seven access holes in the main deck were instrumented to varying degrees. The following hatch openings were instrumented: Frame 36 port, Frame 44 port, Frame 66 1/2 starboard, and Frame 77 1/3 port and starboard.

One of the more thoroughly instrumented main deck openings was at Frame 36 port. A series of five gages were placed on both the forward and aft outboard corners of the opening (see Figure C.33). The nominal strain in this area of the main deck at the 80% load during the 60° lag test is about 400 $\mu\varepsilon$. Gages adjacent to the coaming read between 500 $\mu\varepsilon$ and 800 $\mu\varepsilon$, and gages at the curved portion of the coaming increased to 900 $\mu\varepsilon$ as shown in Figure C.33. A drop in strain occurred on the straight portion approaching the curved section of coaming and where the coaming became transverse to the primary stress direction.

The opening at Frame 44 port was instrumented similar to the opening at Frame 36 (see Figure C.34). The strain distributions are also similar. The nominal strains near Frame 44 are slightly higher (450 to 500 $\mu\varepsilon$) than at Frame 36, and the strains at the curve in the coaming are near 1000 $\mu\varepsilon$, as shown in Figure C.34.

There are four access holes in the main deck immediately above the engine room compartment. Unlike the two previous square openings, these are elongated in the longitudinal direction. Gages were placed only on the outboard corners of the coaming of the opening at Frame 66 1/2 starboard (see Figure C.35). Again, gages placed on the straight portion of the coaming showed strain readings which were close in magnitude to the nominal strains in that area of the main deck, as seen in Figure C.35. A sizeable increase in strain occurred in the curved portion of the coaming corner.

Gages were placed on the two outboard corners of the opening at Frame 77 1/3 starboard (see Figure C.36). The strain data are not as well behaved as those of previously discussed openings, as can be seen in Figure C.36. The data may be suspect since this opening was utilized both as a pathway for permanently installed instrumentation wiring and as access to the interior of the hull. Gages were also placed in the opening at Frame 77 1/3 port (see Figure C.37). An irregularity appears in the second gage in both series of 5 gages at each corner. If it were not for this irregularity, both distributions would be similar to what has been shown before. It is possible that instrumentation wiring was reversed for these two gages.

A number of gages were placed on or near the coamings of most of the access holes in the deckhouse side between the main deck and the 01 deck. Gages were placed on openings at Frames 33, 39, 41, 46, and 62 1/2 on the port side, and at Frames 76, 78 1/2, and 87 on the starboard side. This involved at least a series of 4 gages per coaming, placed on the center of a curved section of the 2-in. wide, 3/8-in. thick coaming. The exact positions of the gages are shown as well as the strain gradients from the static tests in Figures C.38 through C.45. As a result of high strains in many access hole coamings measured during preliminary static tests (i.e., testing prior to the four tests examined for this report), structural modifications were completed. These entailed doubling the thickness of the original 3/16-in. coaming and adding a doubler plate to the deckhouse side adjacent to the opening, as discussed in the main text of this report. The additional coaming piece was welded completely around the existing coaming at both inboard and outboard edges. In addition to the previously mentioned modifications, a closure plate was used at Frame 33 port access hole in the deckhouse. The gages originally placed on the coaming were repositioned when the closure plate was installed. The gages formed a rosette near the upper forward corner of the opening. The remaining gage was placed at the lower forward corner on the doubler plate (a strain reading of 560 $\mu\varepsilon$ was measured at 80% load). Also, fashion plates were added to the structure forward of Bulkhead 33.

Figure C.45 is a plot of the strain gradients (due to 80% BM) near the intersection of the port deckhouse corner at Bulkhead 92 and the main deck.

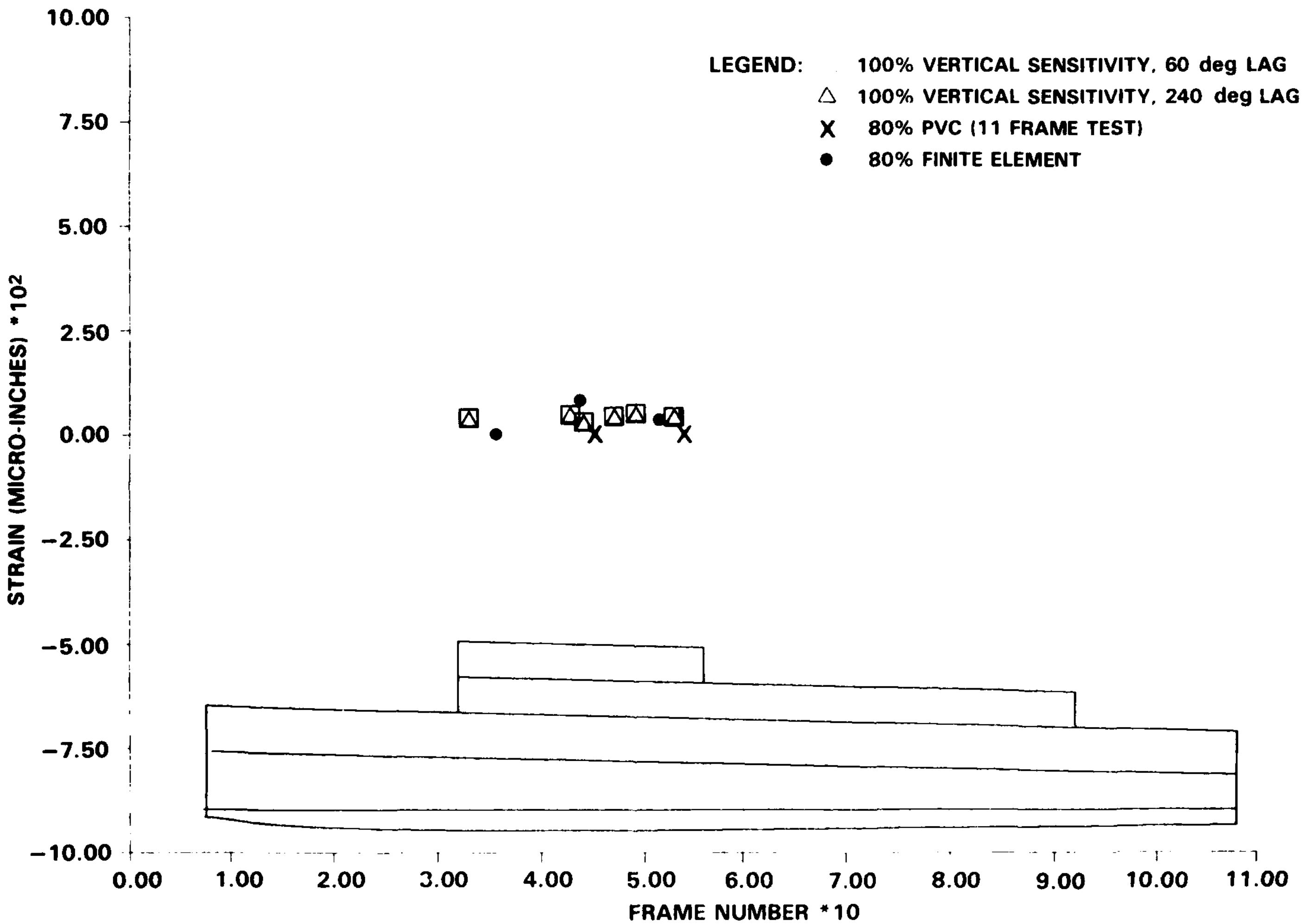


Figure C.1 – Longitudinal Distribution of Longitudinal Bending Strain of the 02 Deck Centerline

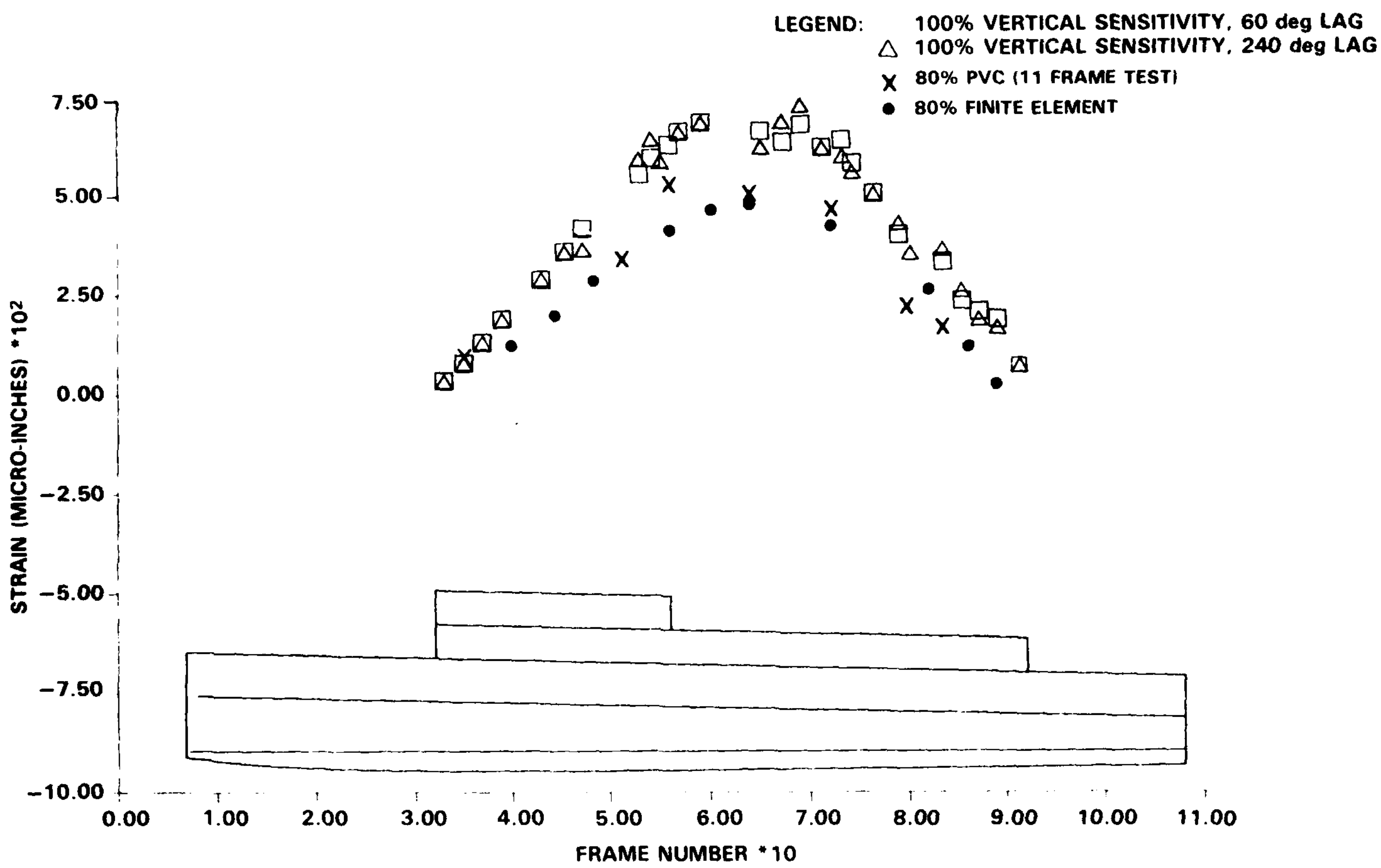


Figure C.2 - Longitudinal Distribution of Longitudinal Bending Strain of the 01 Deck Centerline

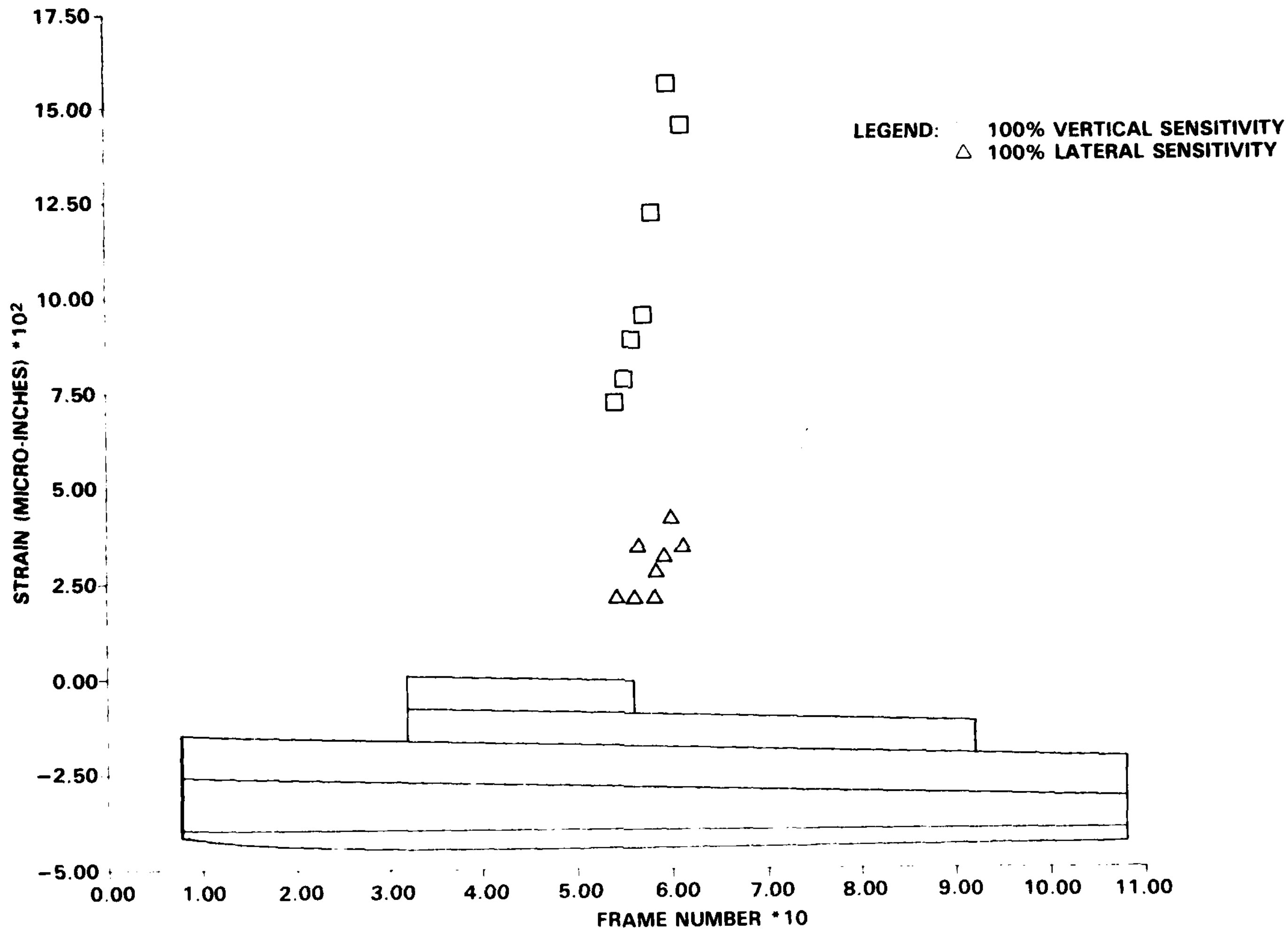


Figure C.3 - Longitudinal Distribution of Longitudinal Bending Strain of 01 Deck Starboard Edge (From Frame 54 through Frame 61)

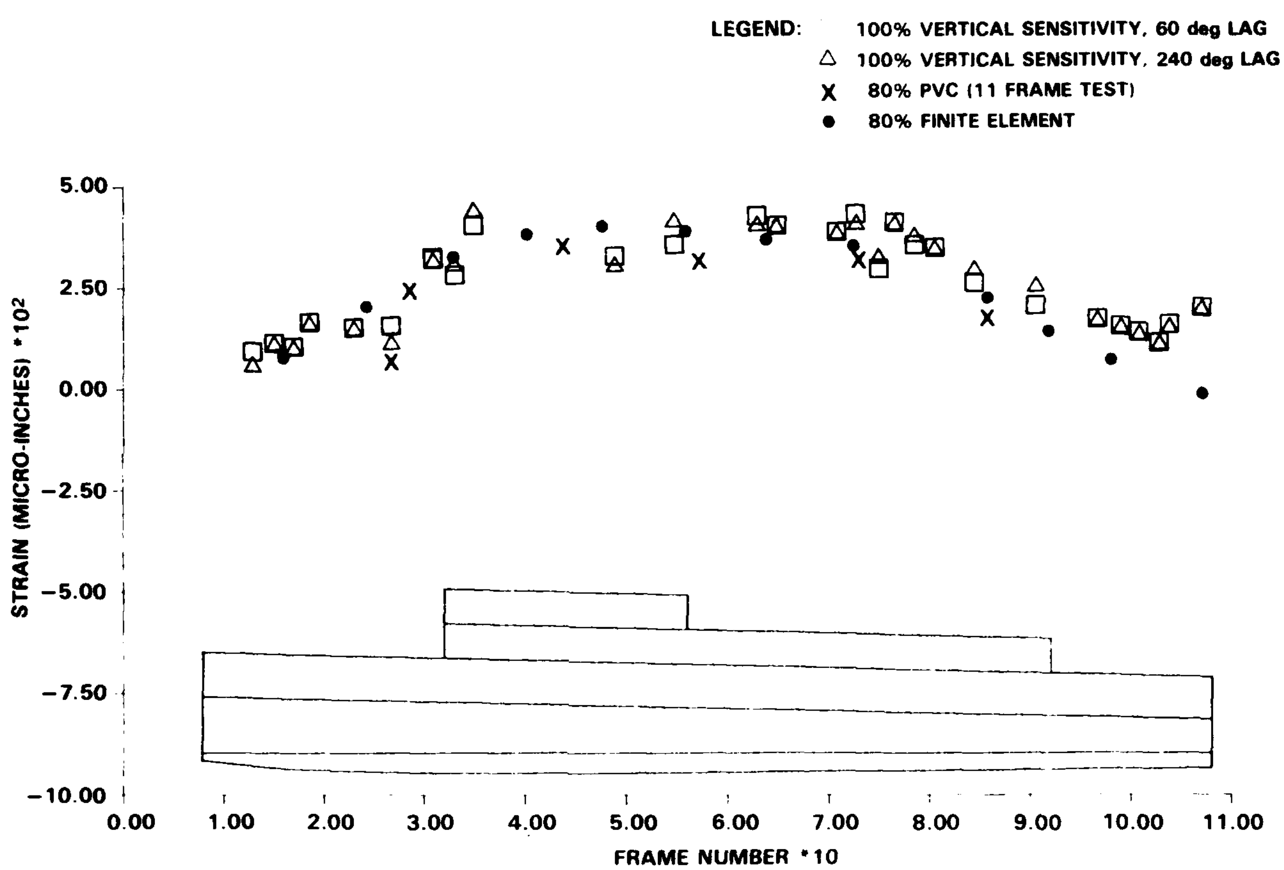


Figure C.4 – Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck Centerline

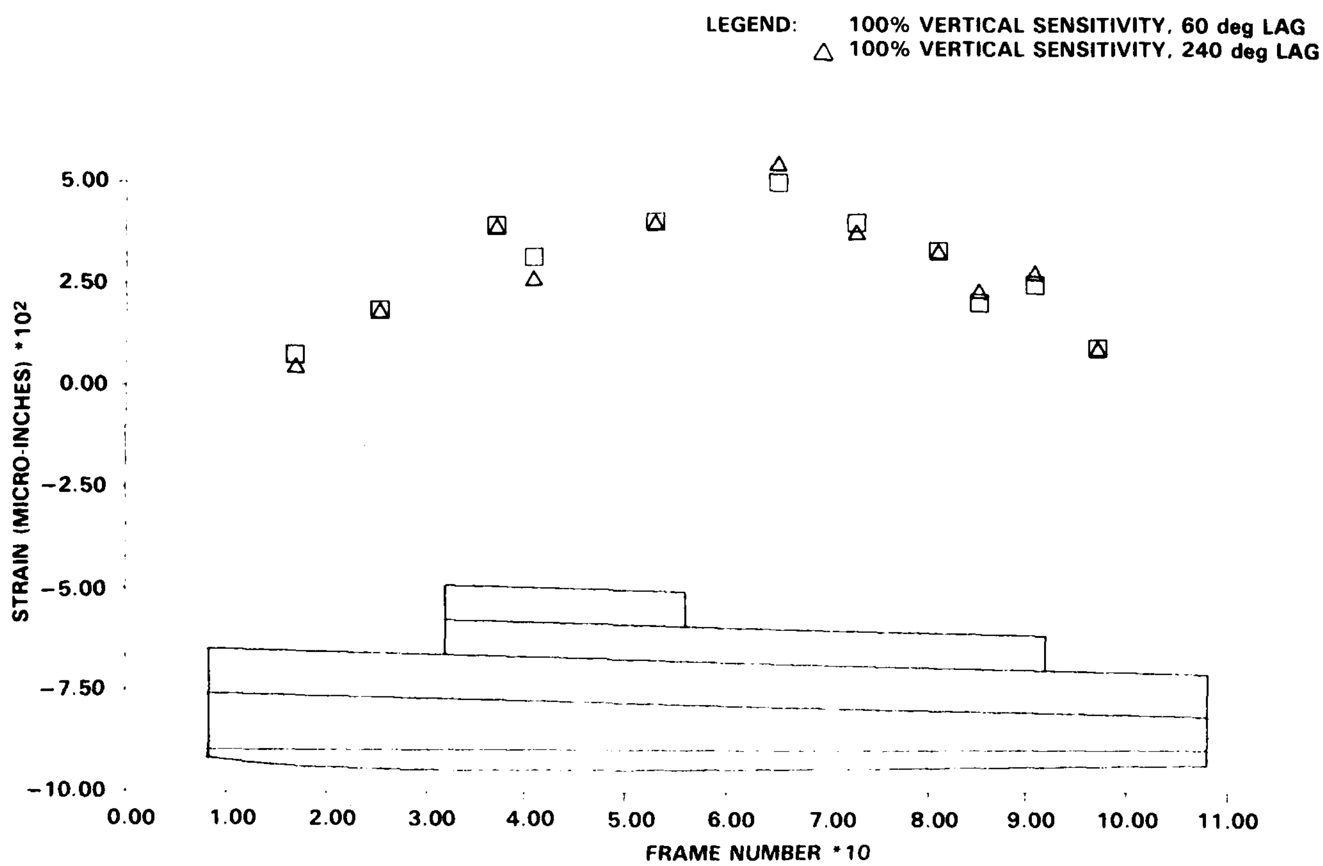


Figure C.5 – Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Port Gunwale

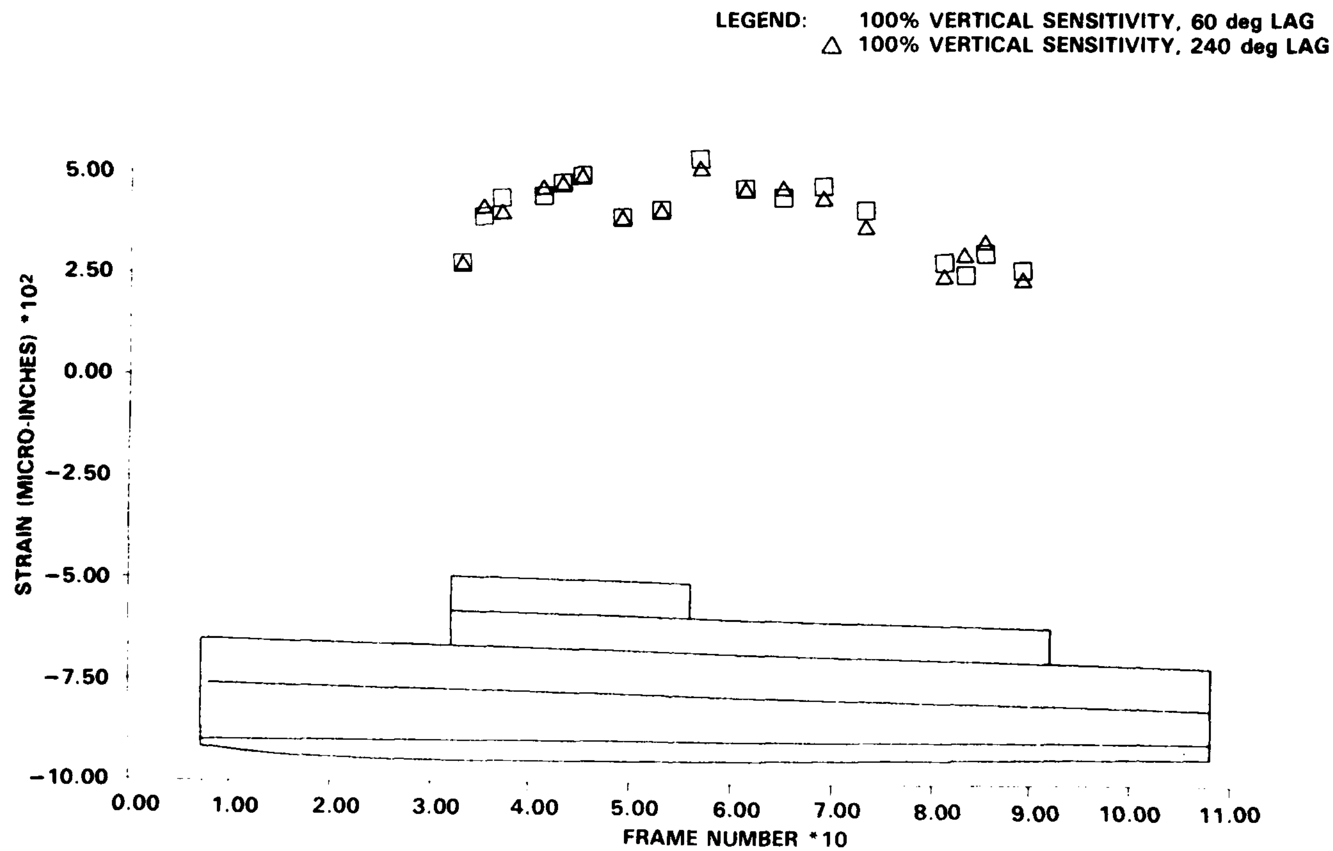


Figure C.6 – Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Port, Near Deckhouse Side

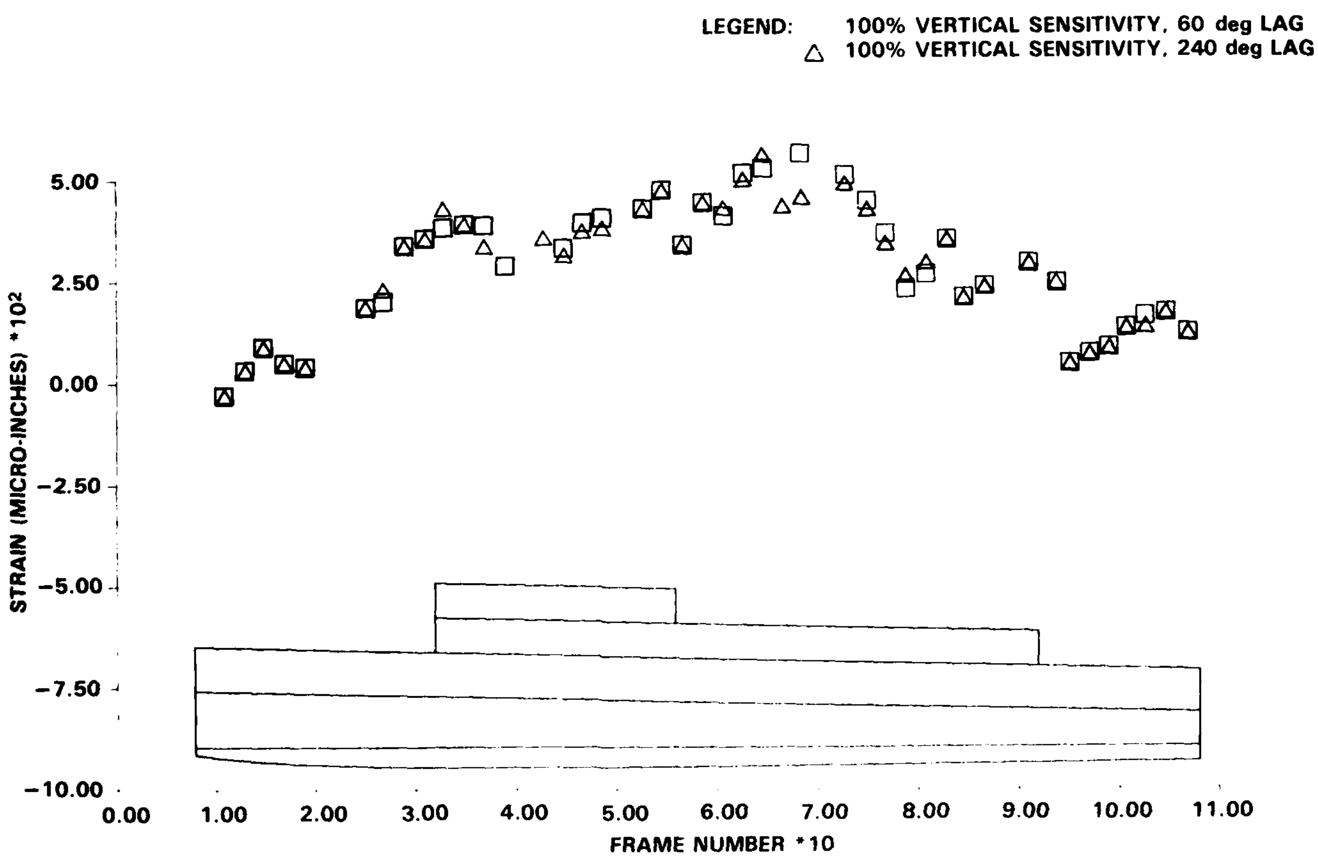


Figure C.7 – Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Starboard Gunwale

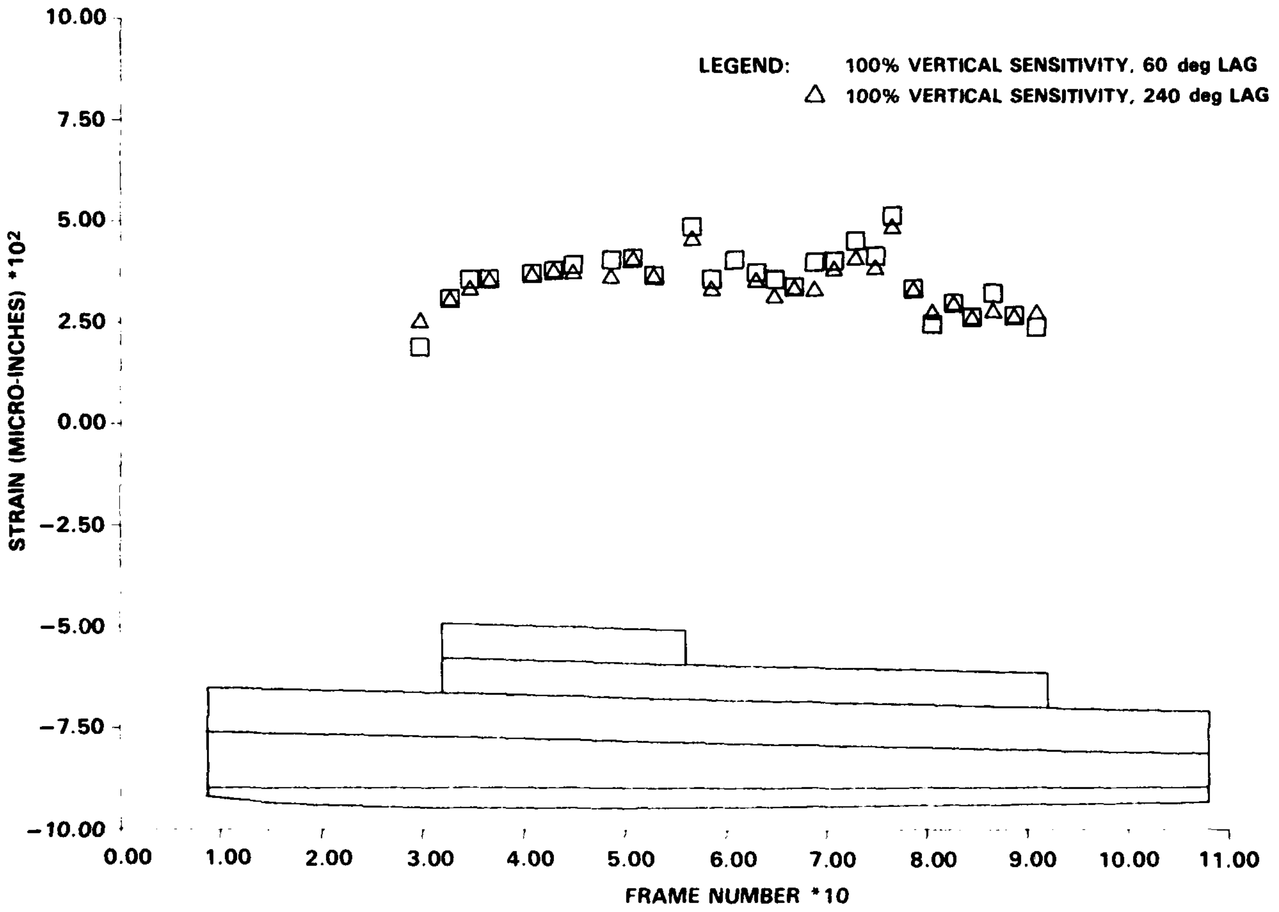


Figure C.8 - Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Starboard, Near Deckhouse Side

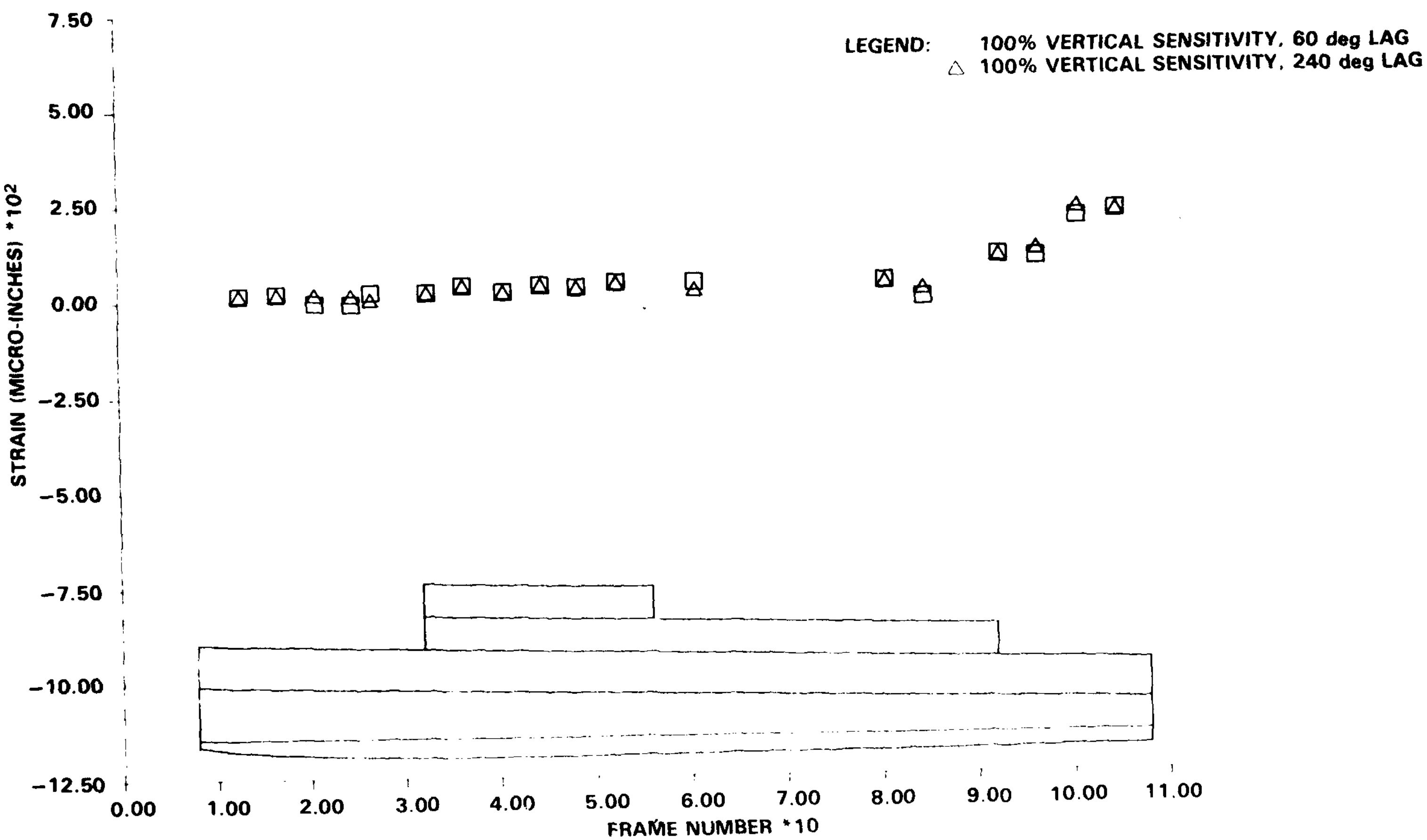


Figure C.9 – Longitudinal Distribution of Longitudinal Bending Strain of the Platform Deck, Centerline

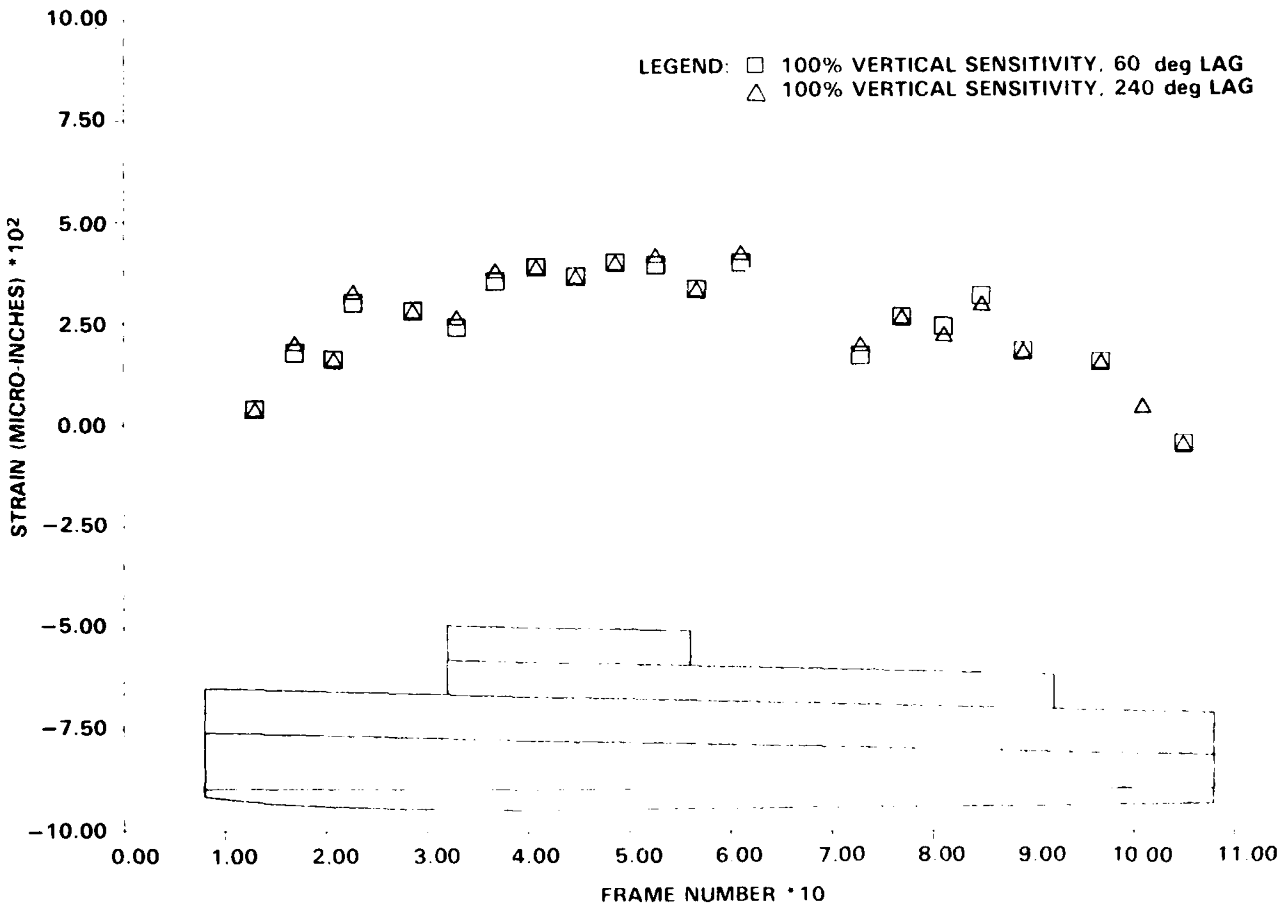


Figure C.10 – Longitudinal Distribution of Longitudinal Bending Strains
of the Inner Bottom Centerline

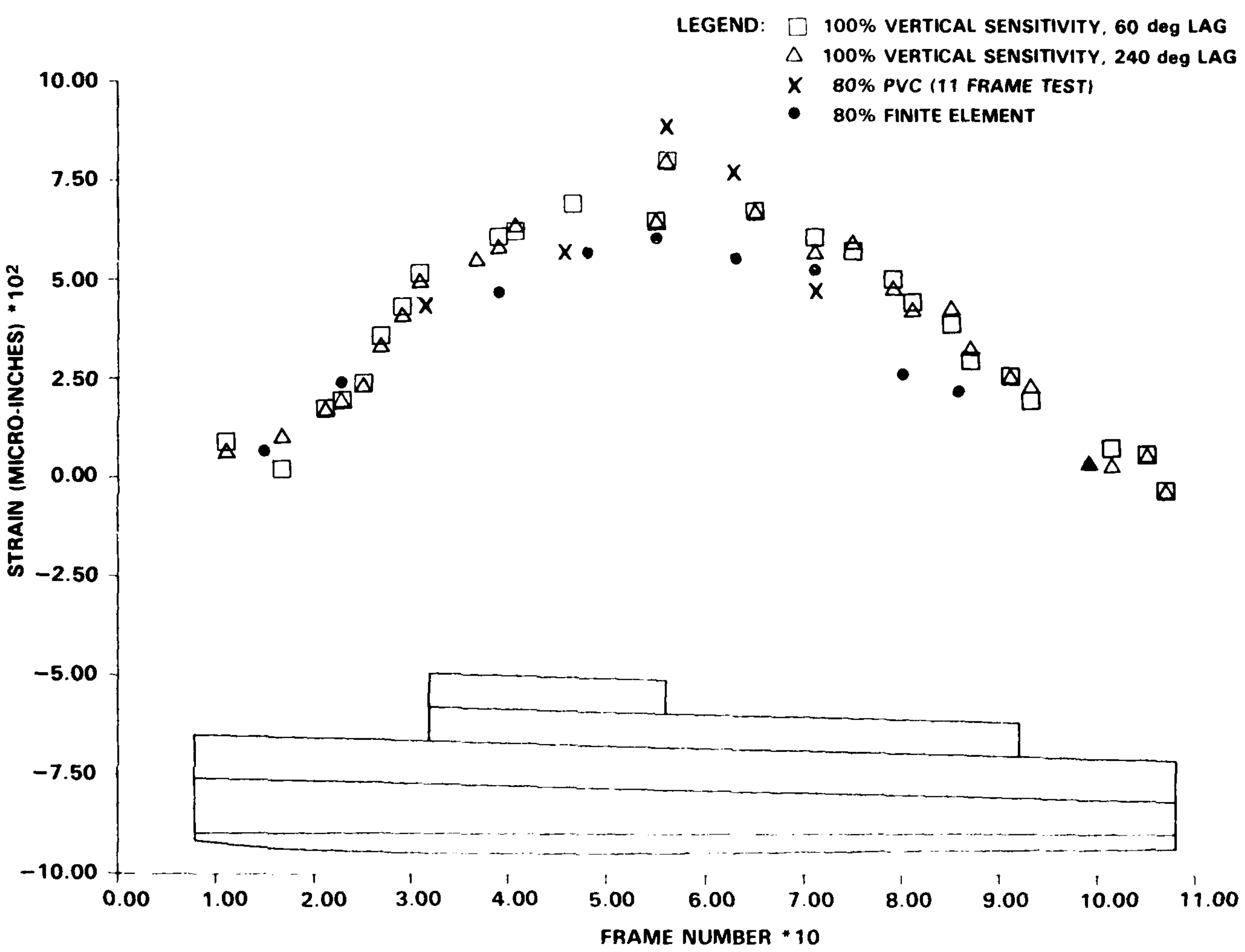


Figure C.11 - Longitudinal Distribution of Longitudinal Bending Strain of the Keel Centerline

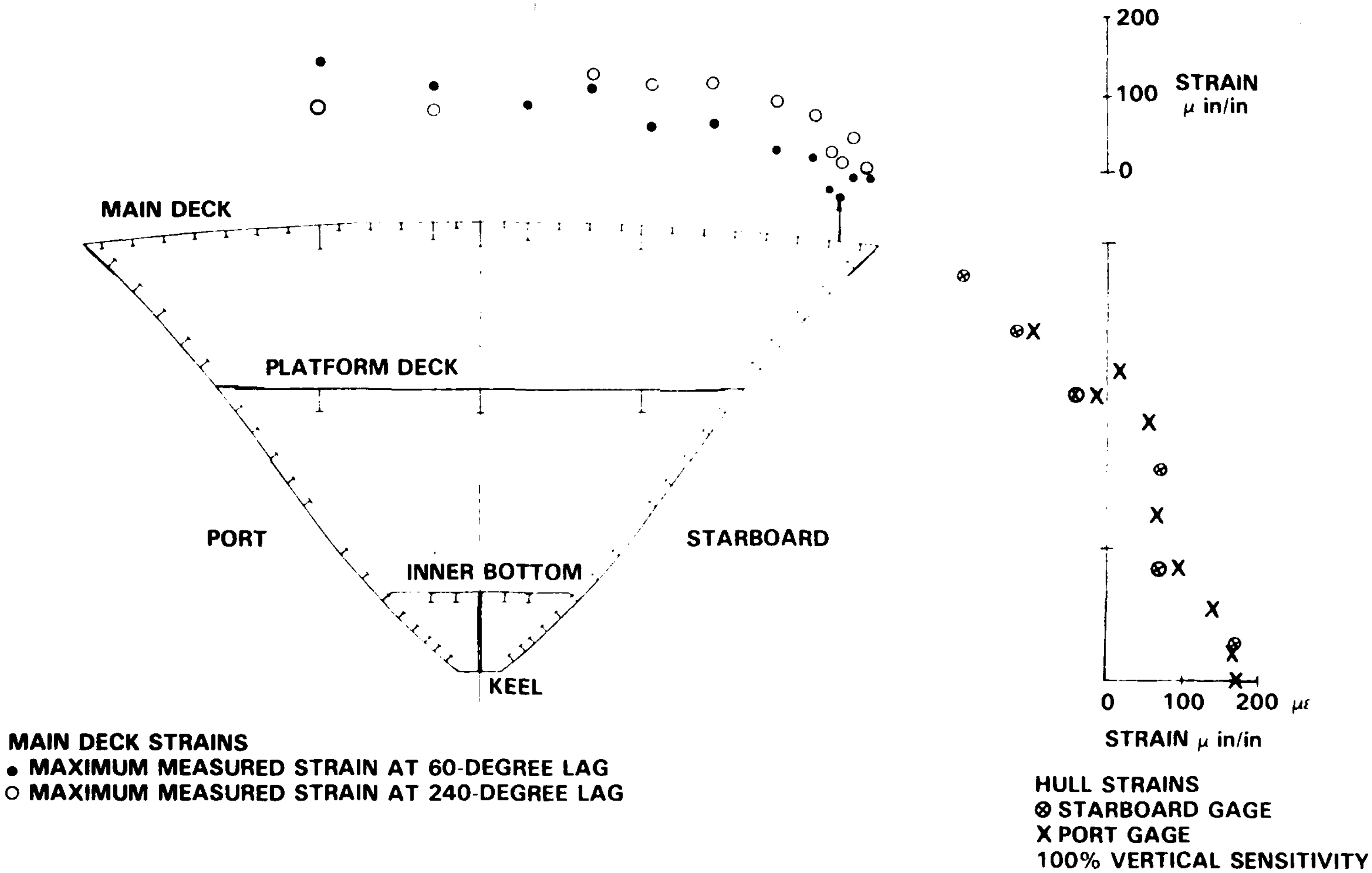


Figure C.12 – Transverse Distributions of Longitudinal Bending Strain at Frame [illegible]1

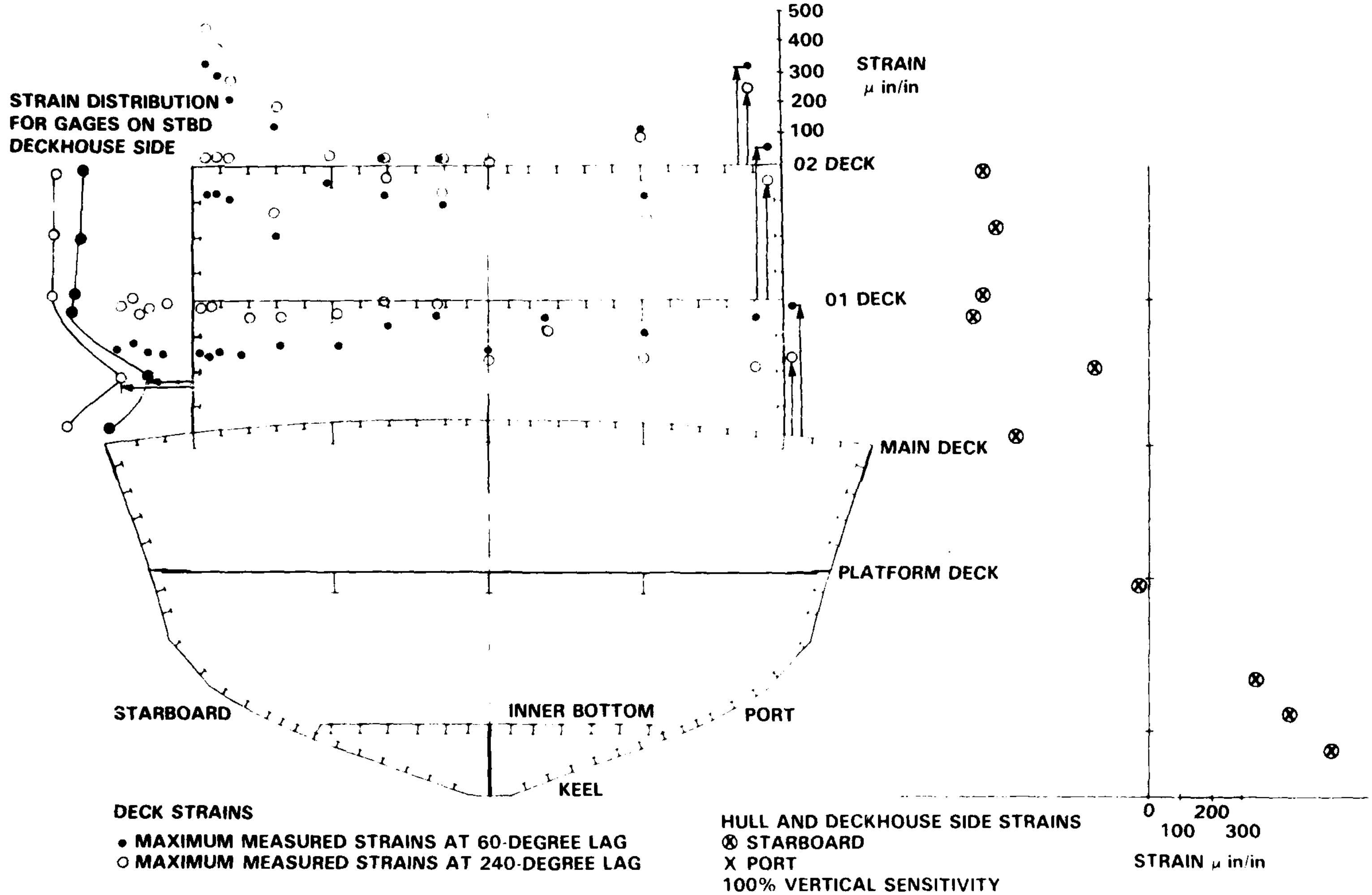


Figure C.13 – Transverse Distributions of Longitudinal Bending Strain at Frame 49

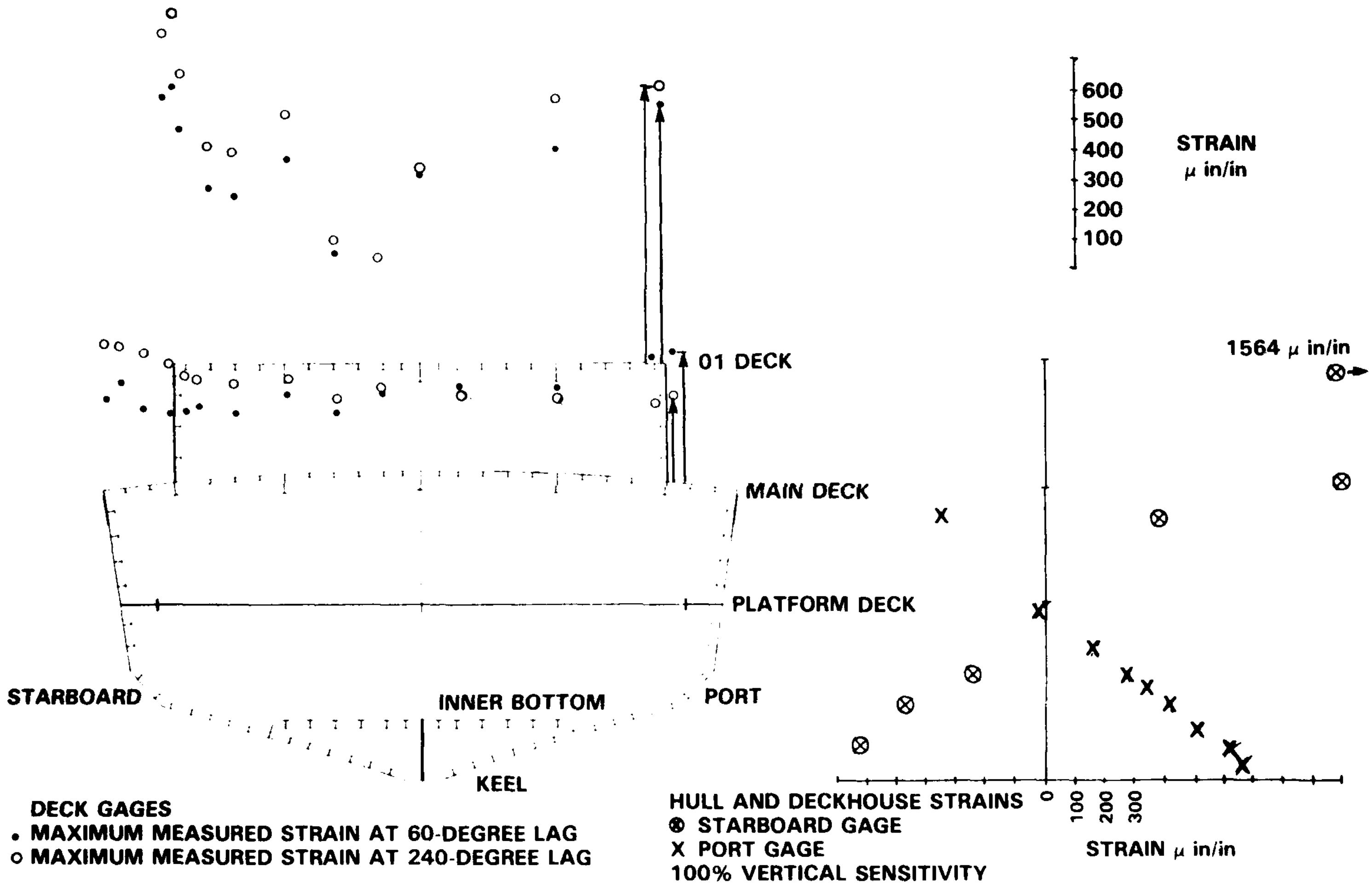


Figure C.14 – Transverse Distributions of Longitudinal Bending Strain at Frame 61

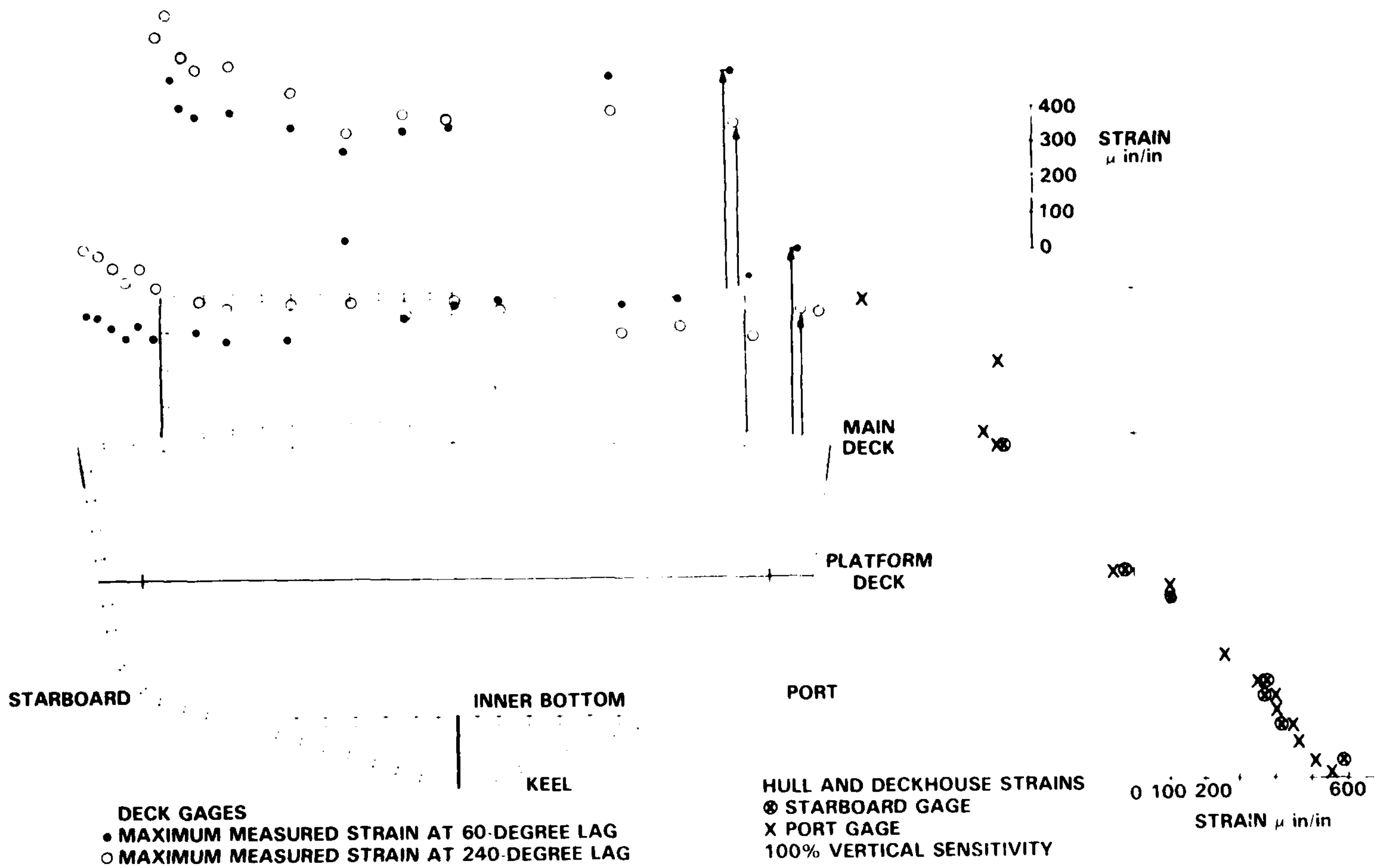


Figure C.15 – Transverse Distributions of Longitudinal Bending Strain at Frame 73

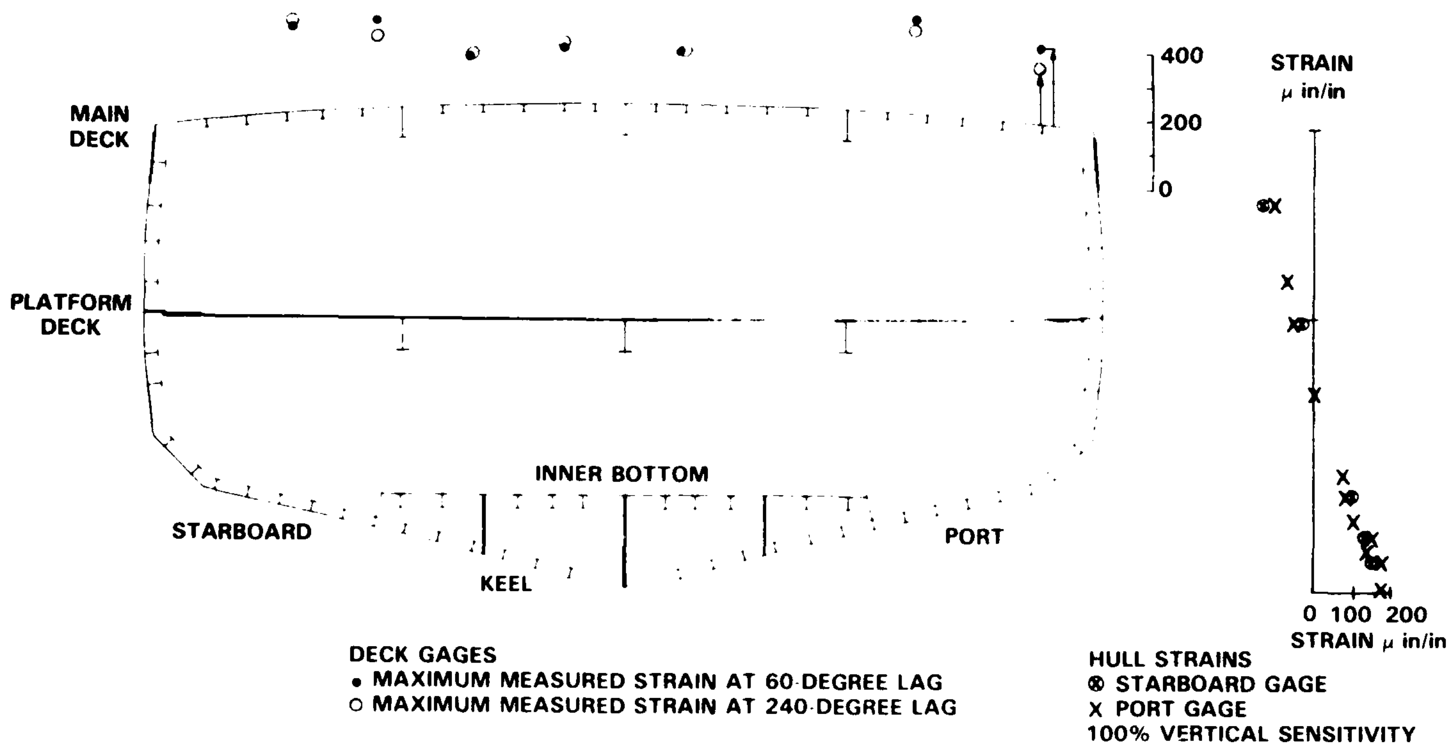


Figure C.16 – Transverse Distributions of Longitudinal Bending Strain at Frame 95

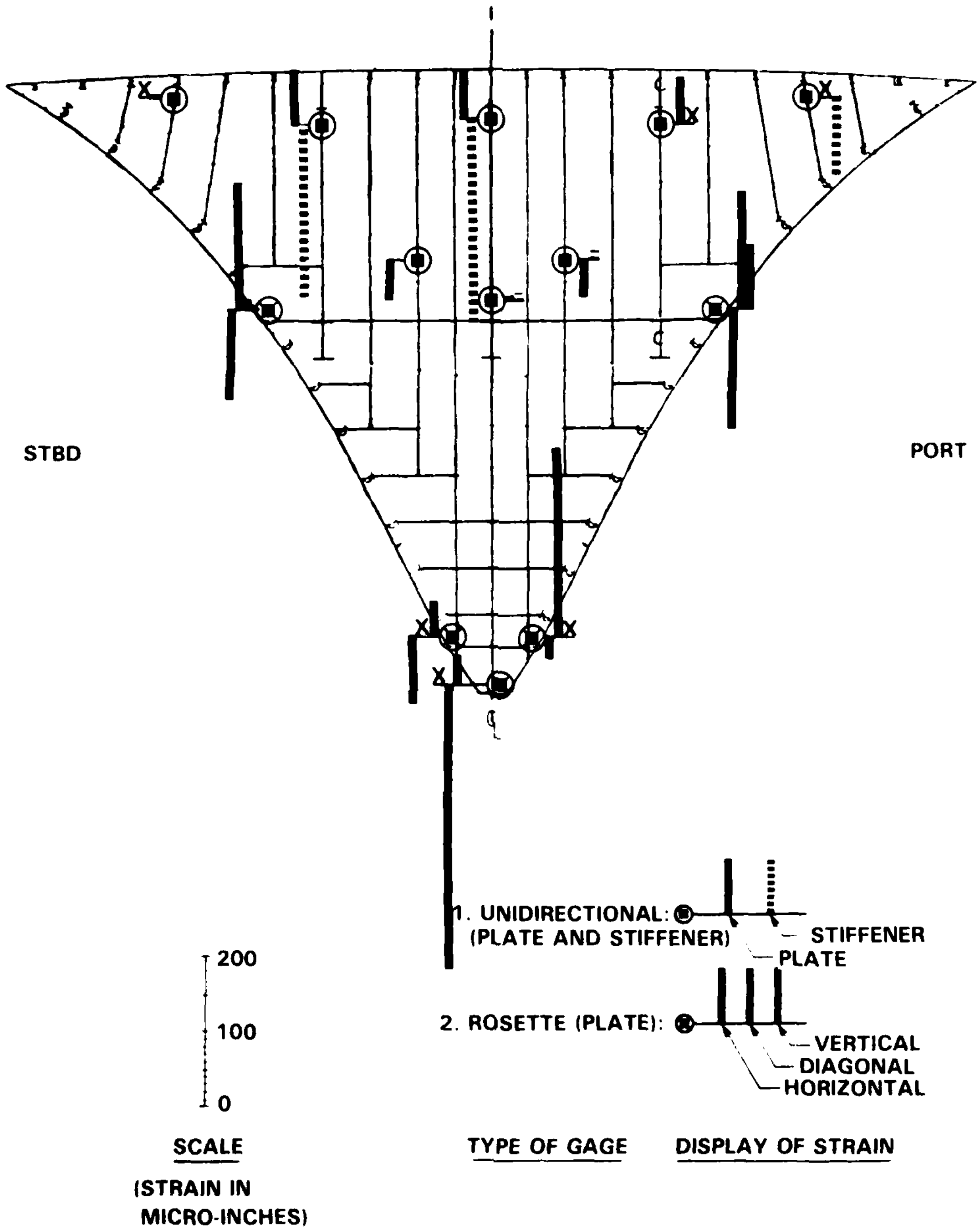


Figure C.17 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 8

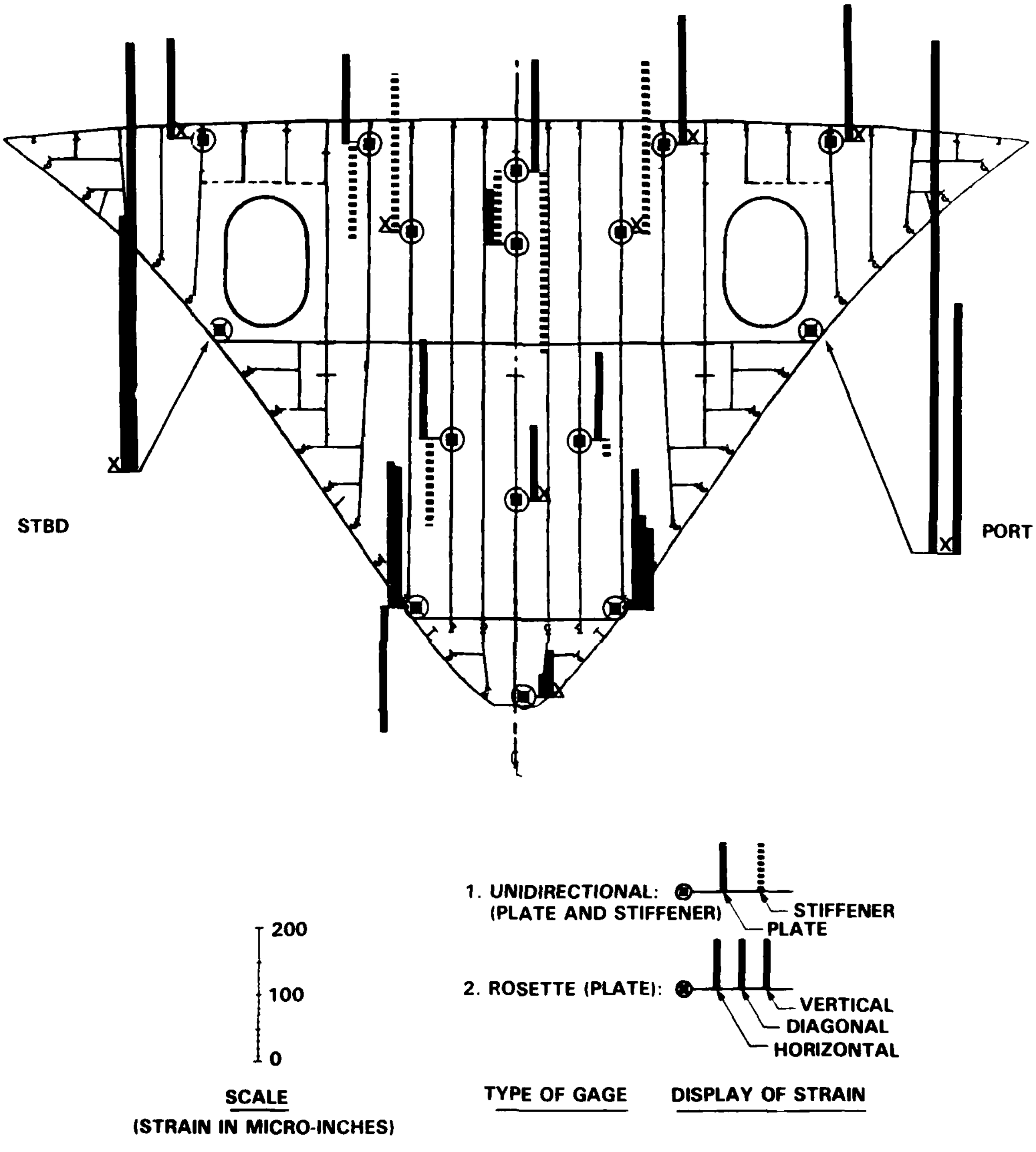


Figure C.18 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 16

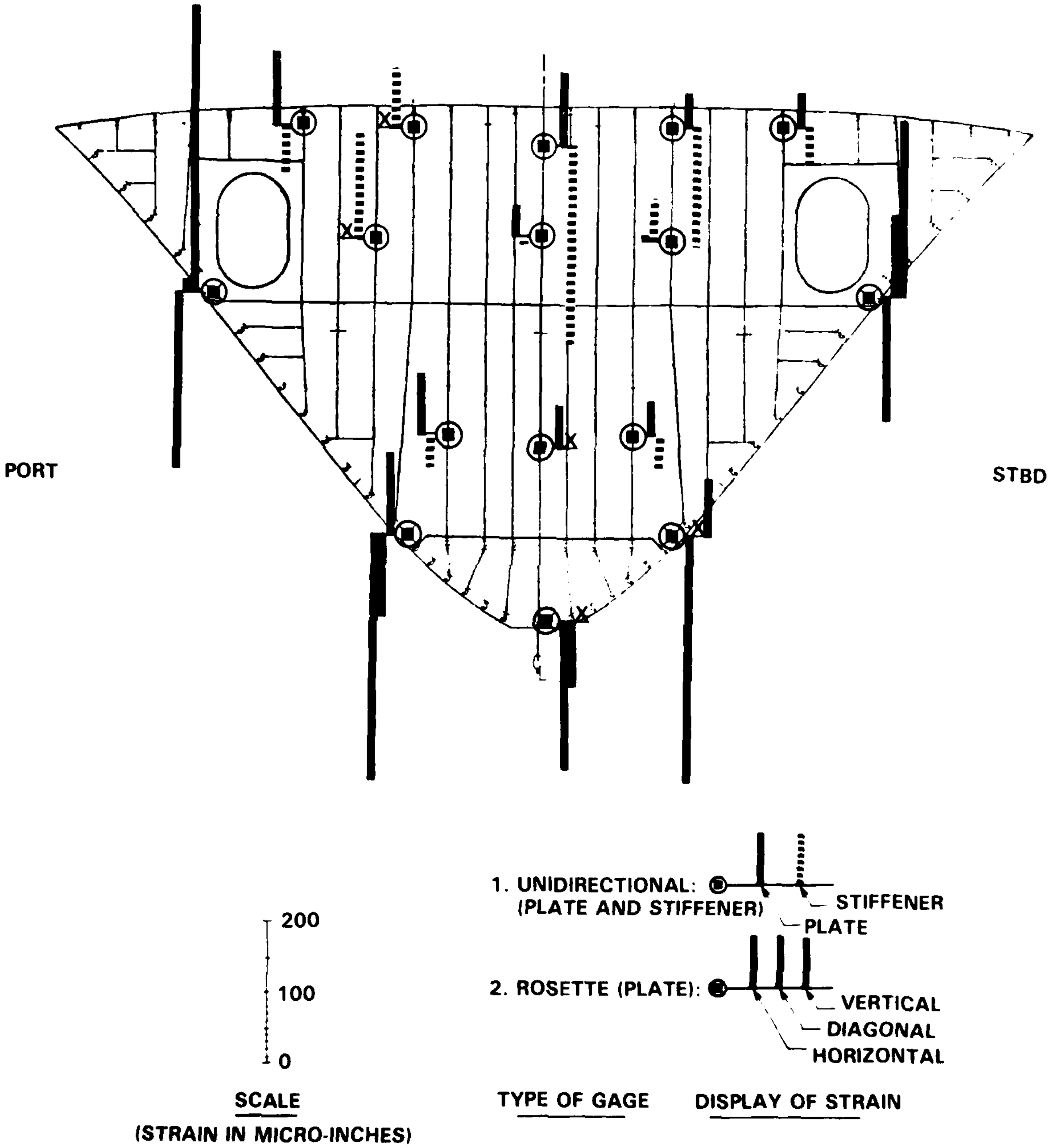
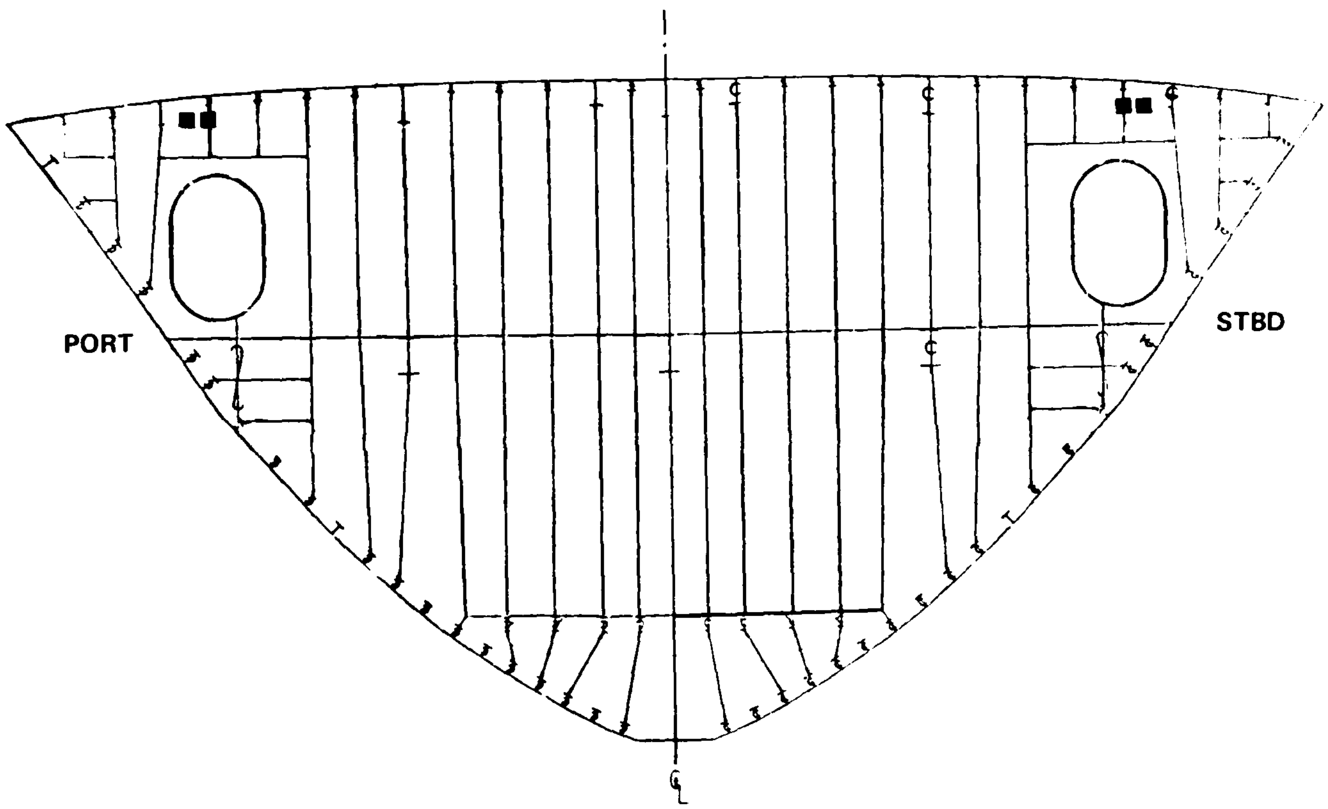


Figure C.19 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 24



NO DATA

Figure C.20 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 32

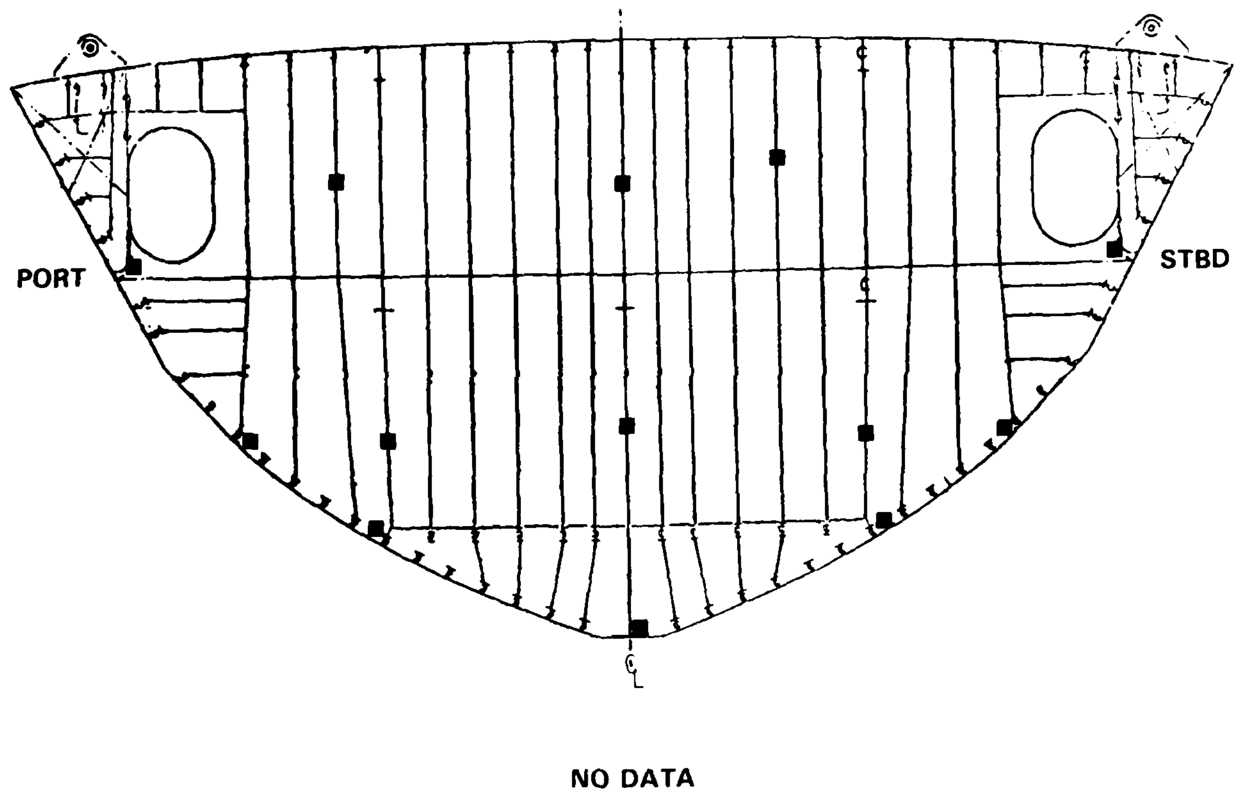
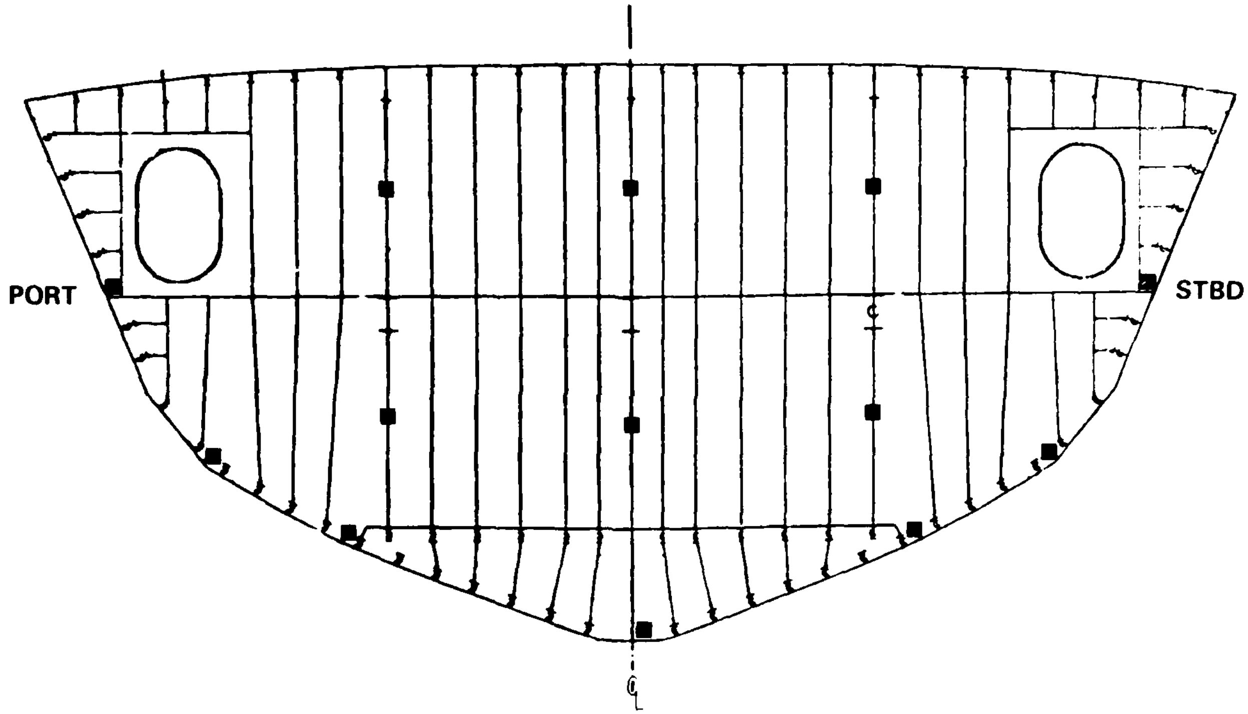


Figure C.21 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 40



NO DATA

Figure C.22 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 48

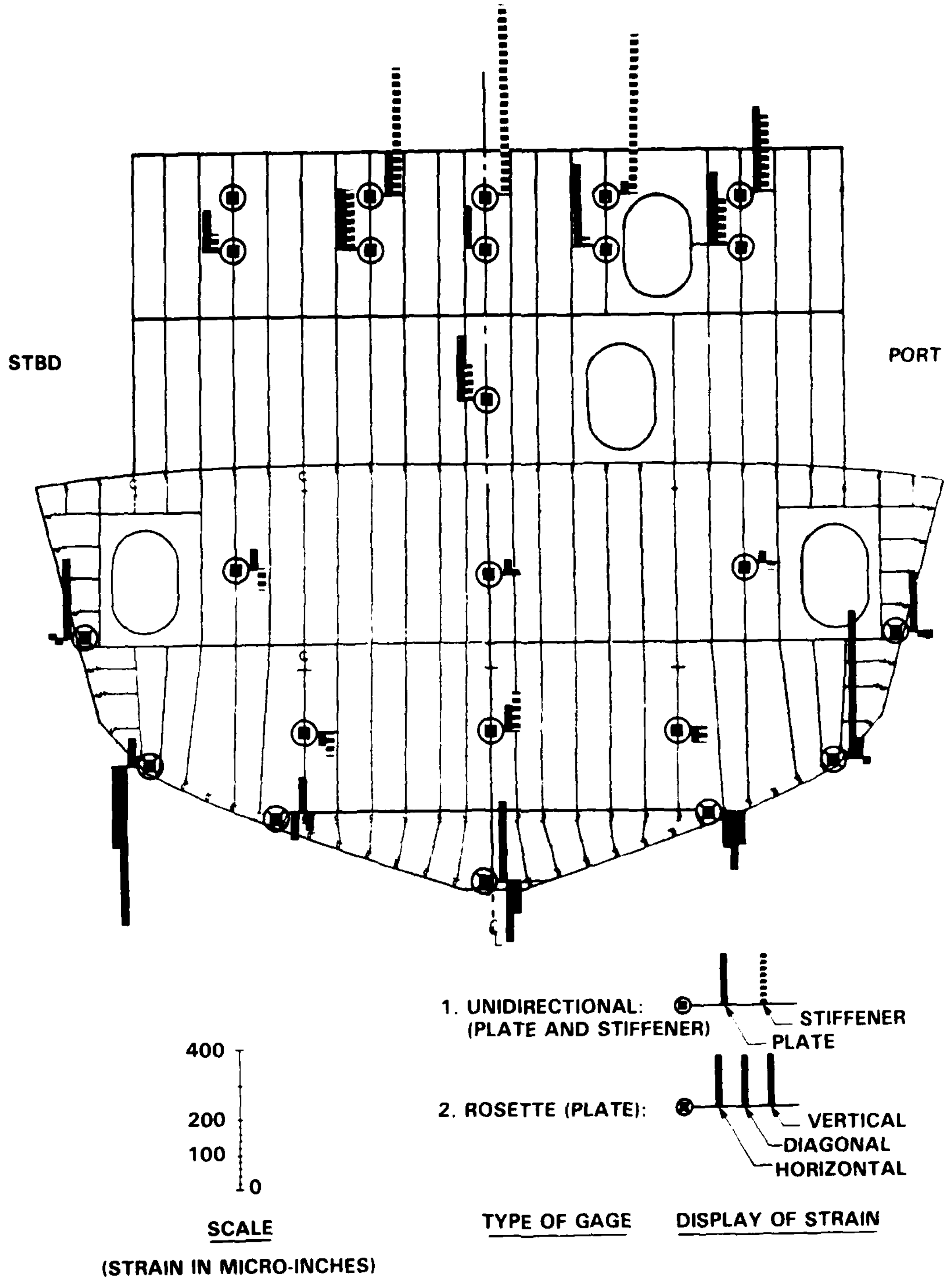


Figure C.23 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 56

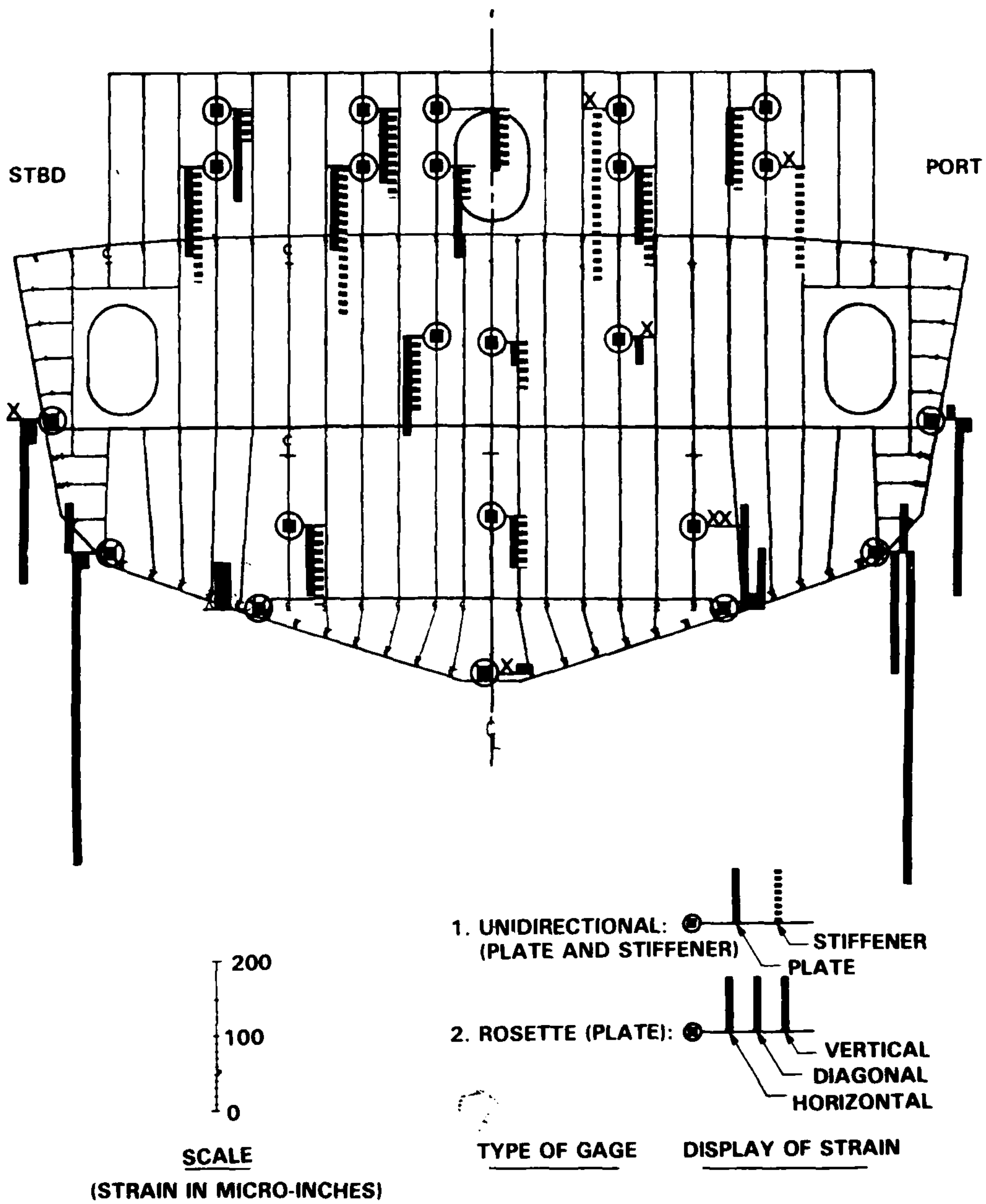


Figure C.24 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 64

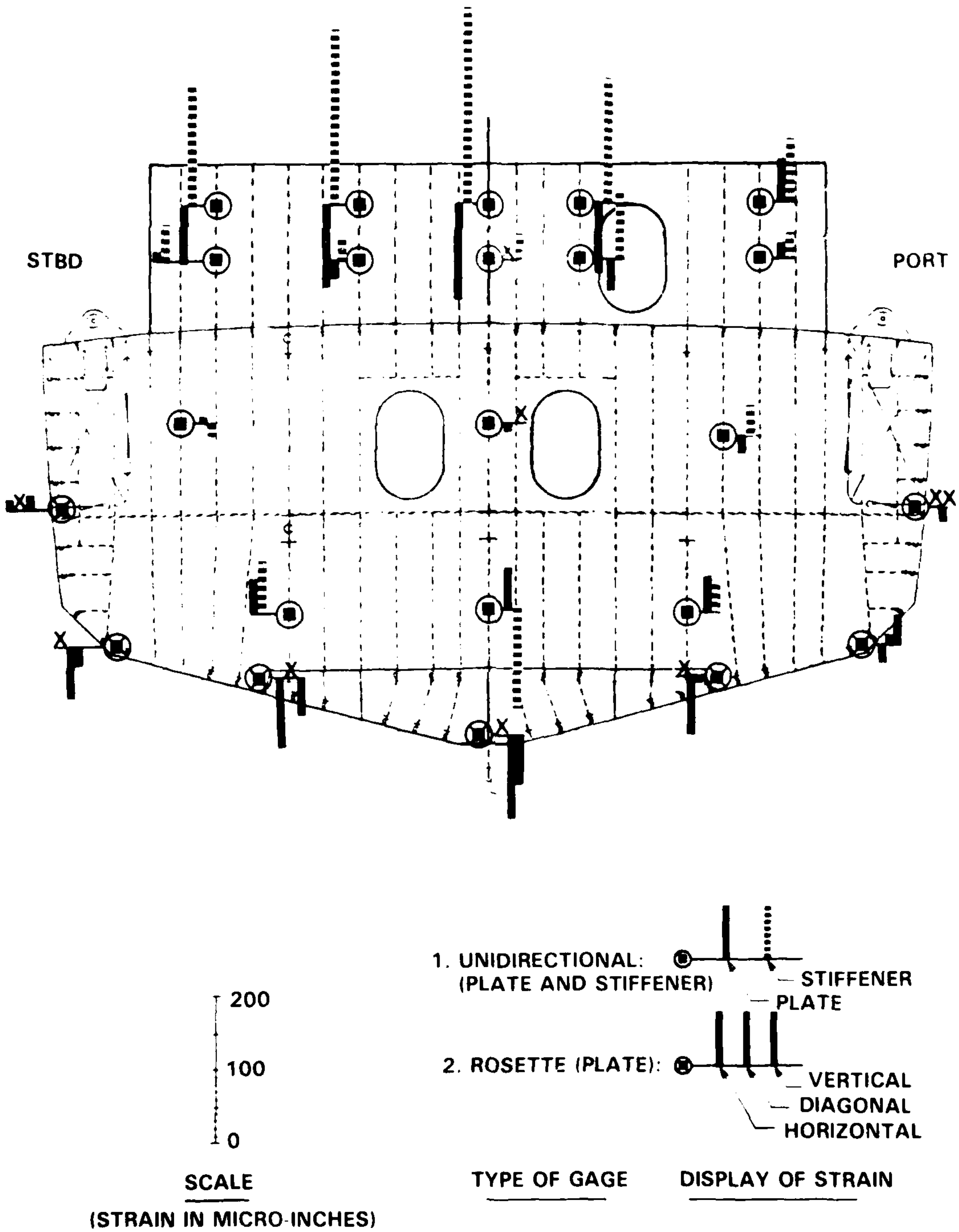


Figure C.25 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 80

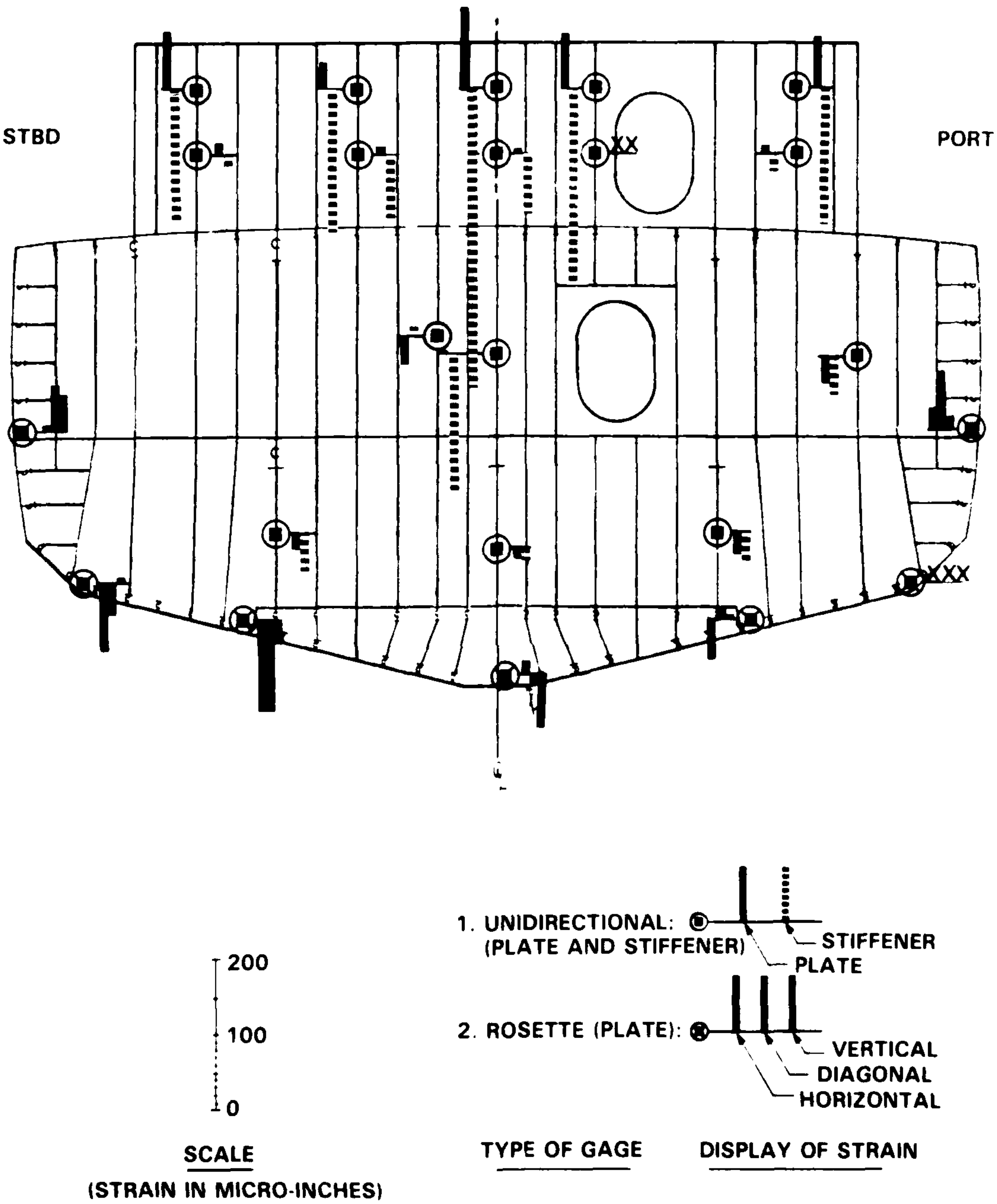


Figure C.26 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 86

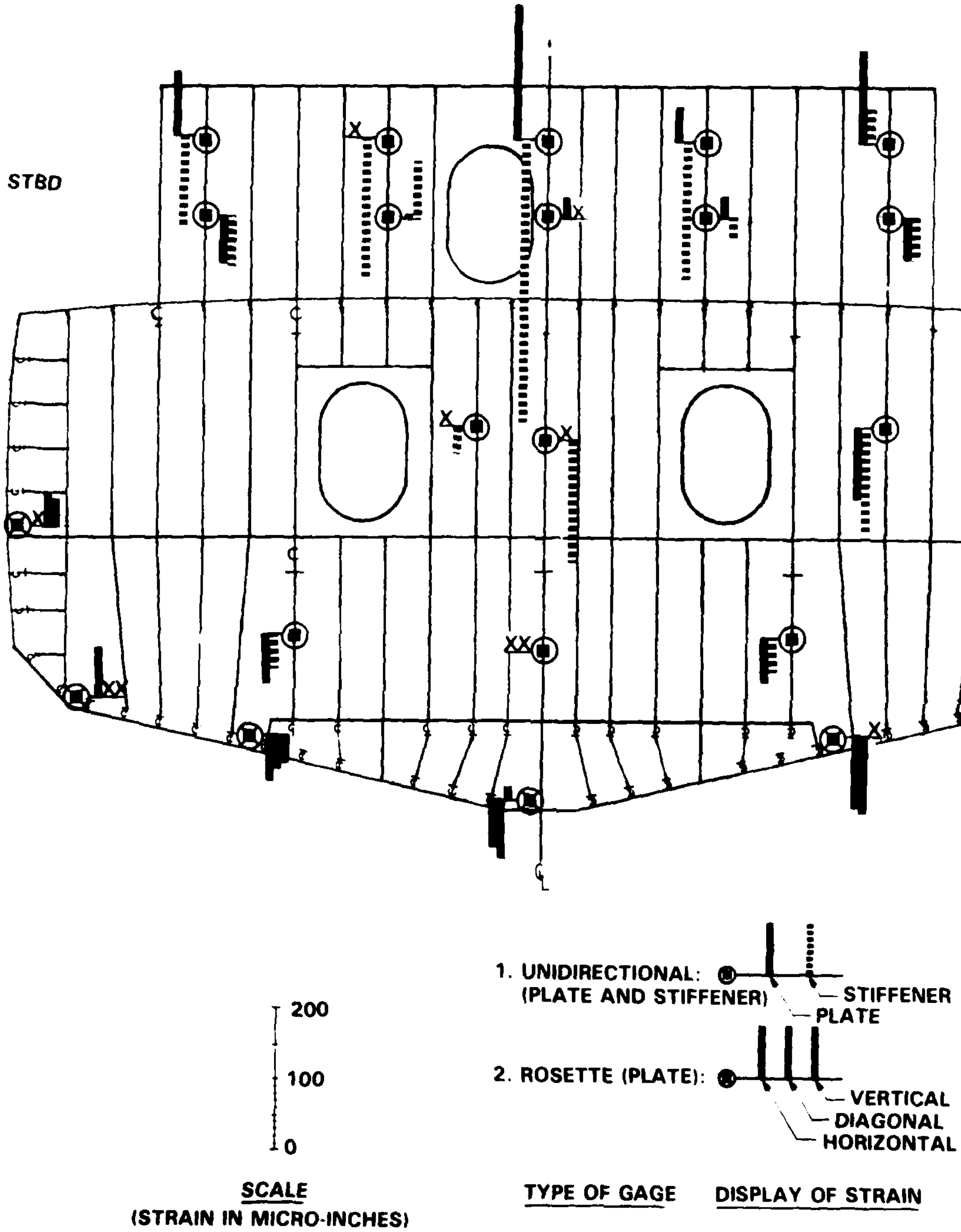


Figure C.27 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 92

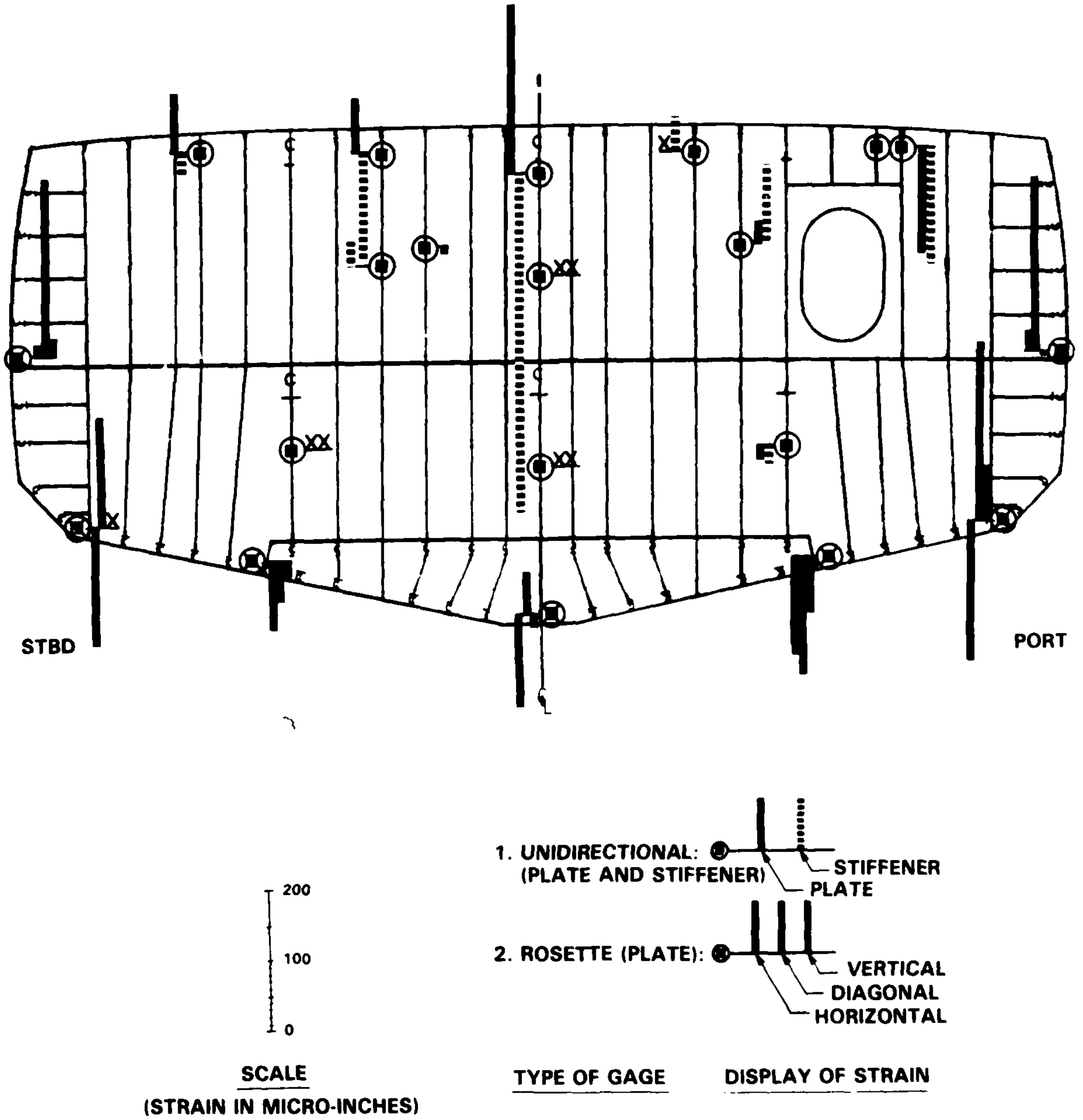


Figure C.28 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 98

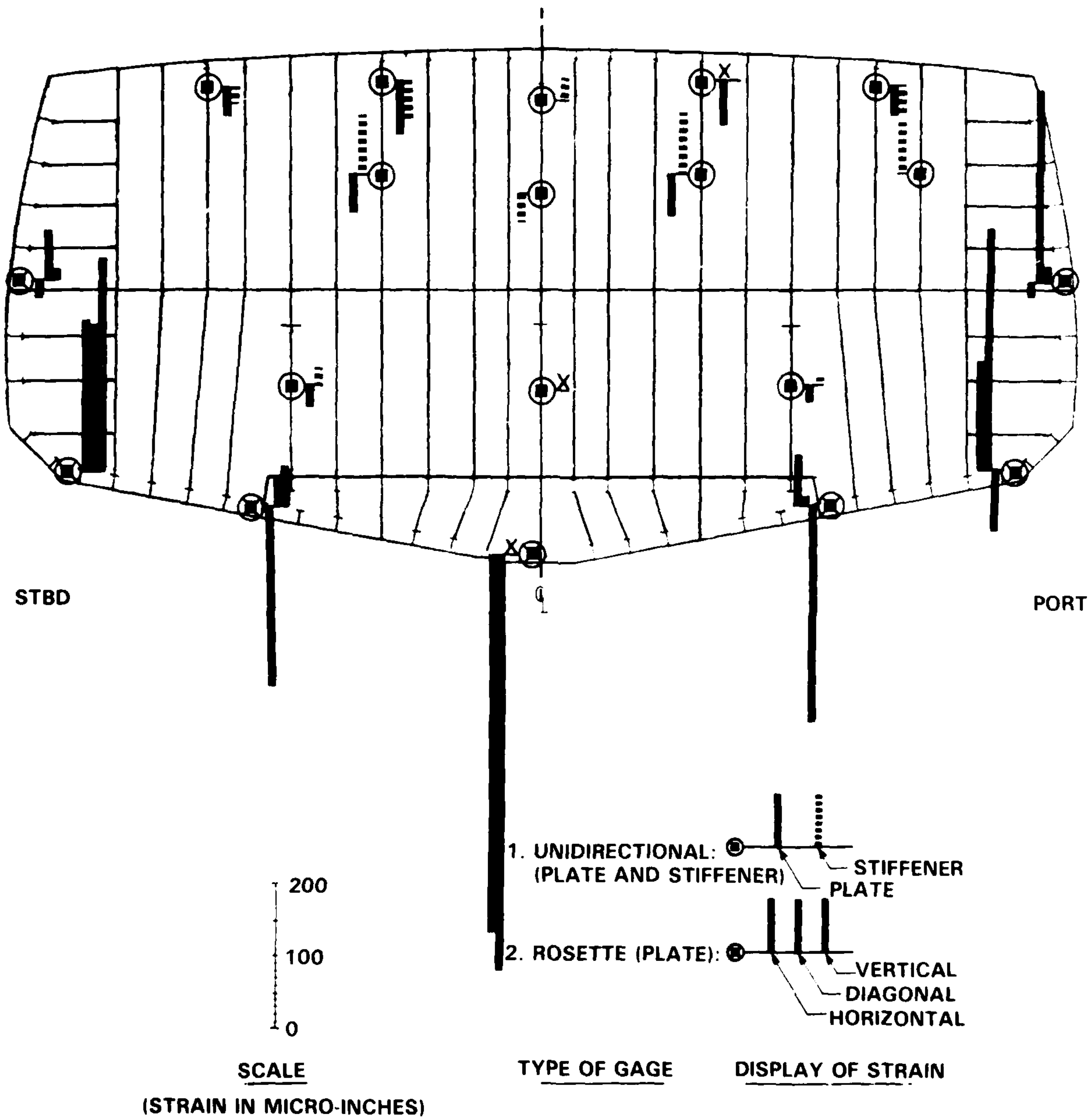


Figure C.29 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 108

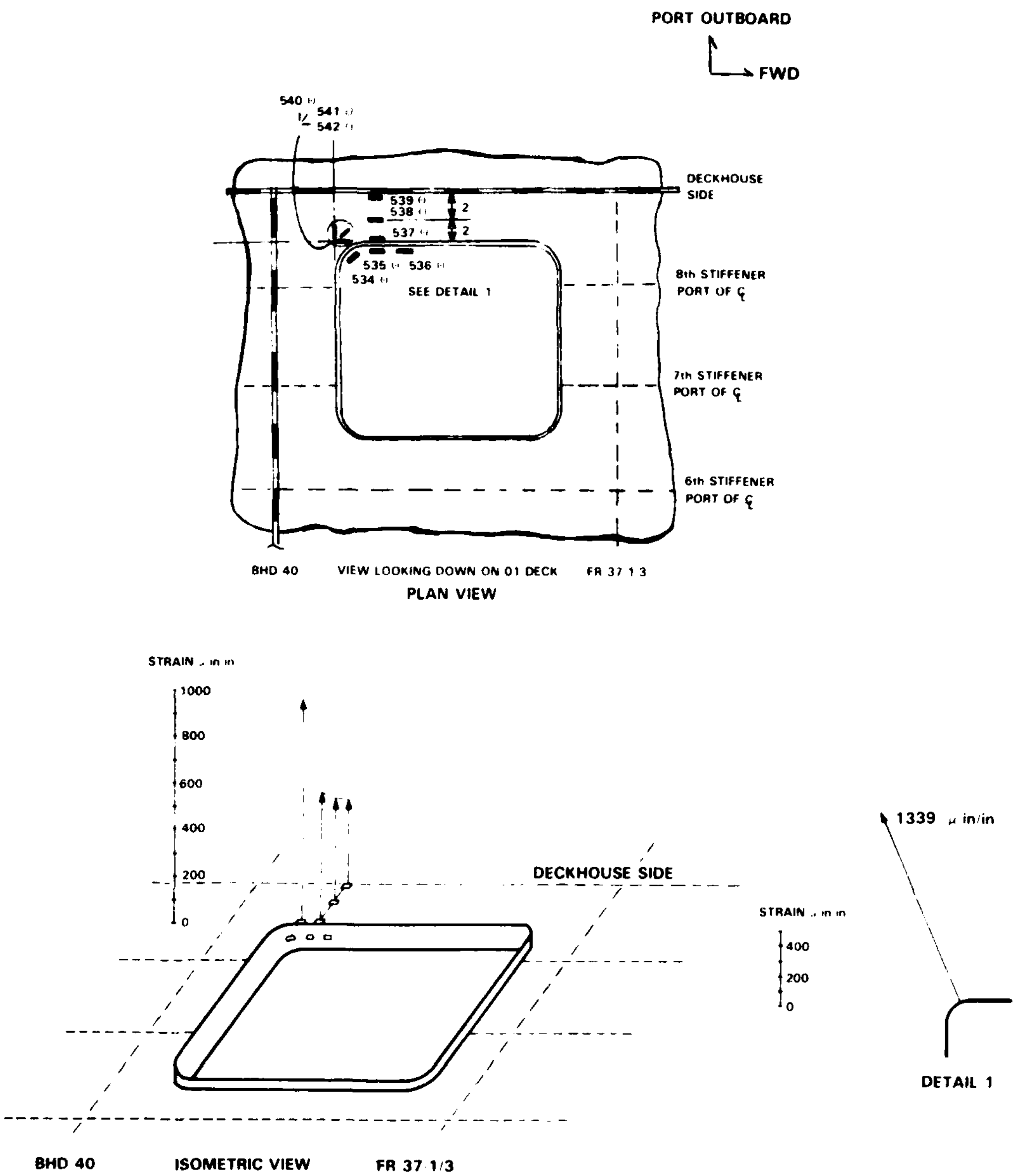


Figure C.30 - Maximum Measured Strain, 60 Degree Lag, 01 Deck Hole at Frame 38 1/2, Port Side

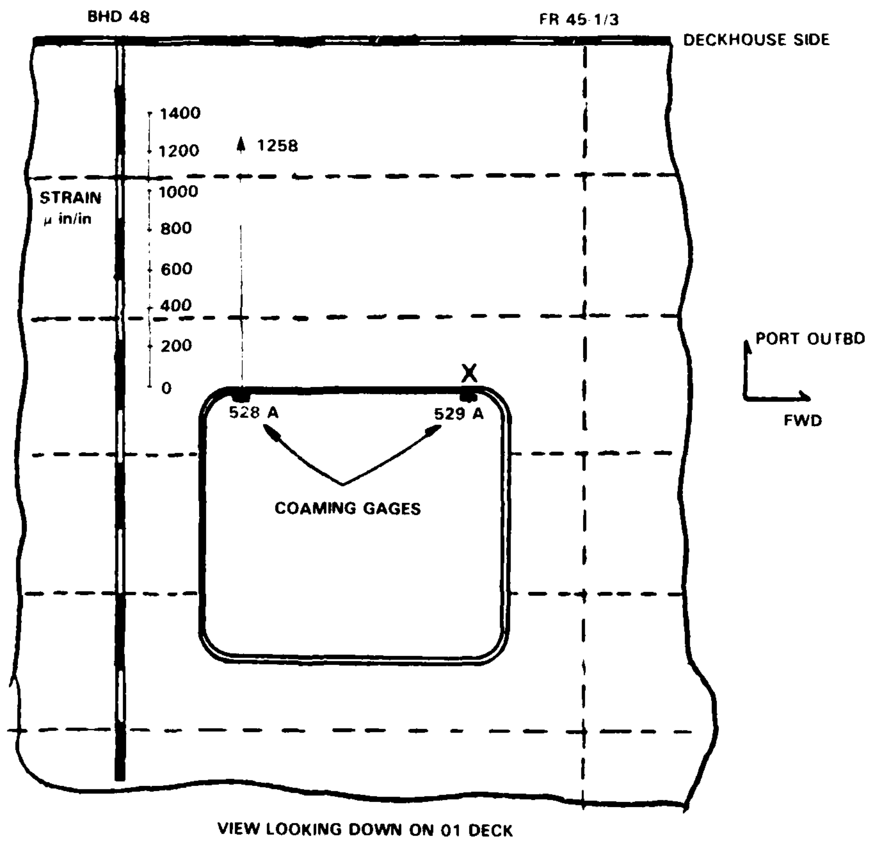


Figure C.31 - Maximum Measured Strain, 60 Degree Lag, 01 Deck Hole at Frame 46, Port Side

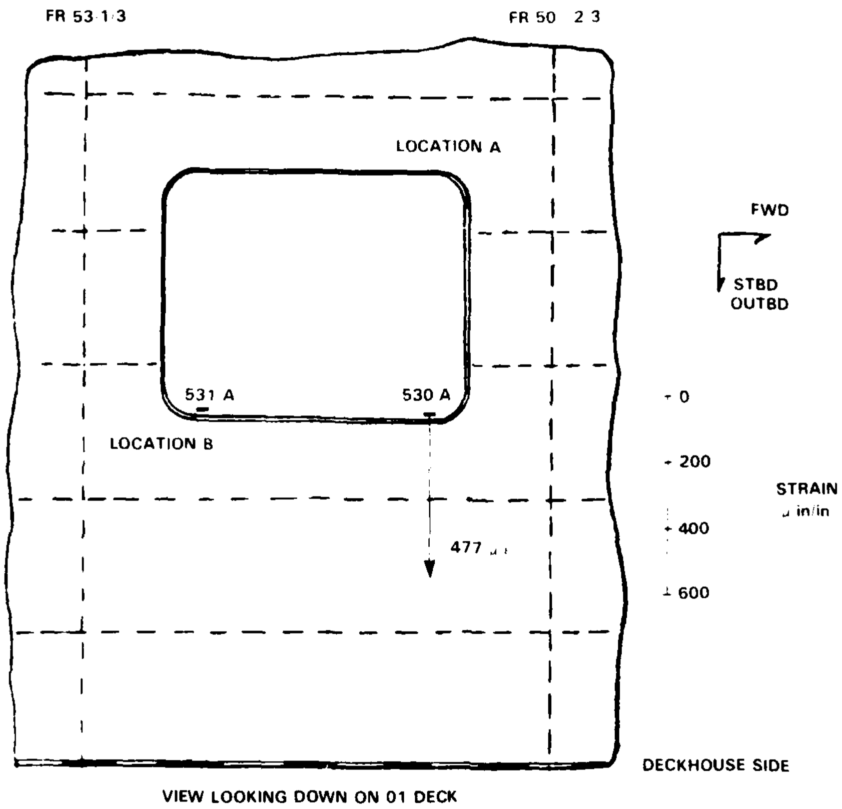


Figure C.32 - Maximum Measured Strain, 60 Degree Lag, 01 Deck Hole at Frame 52, Starboard Side

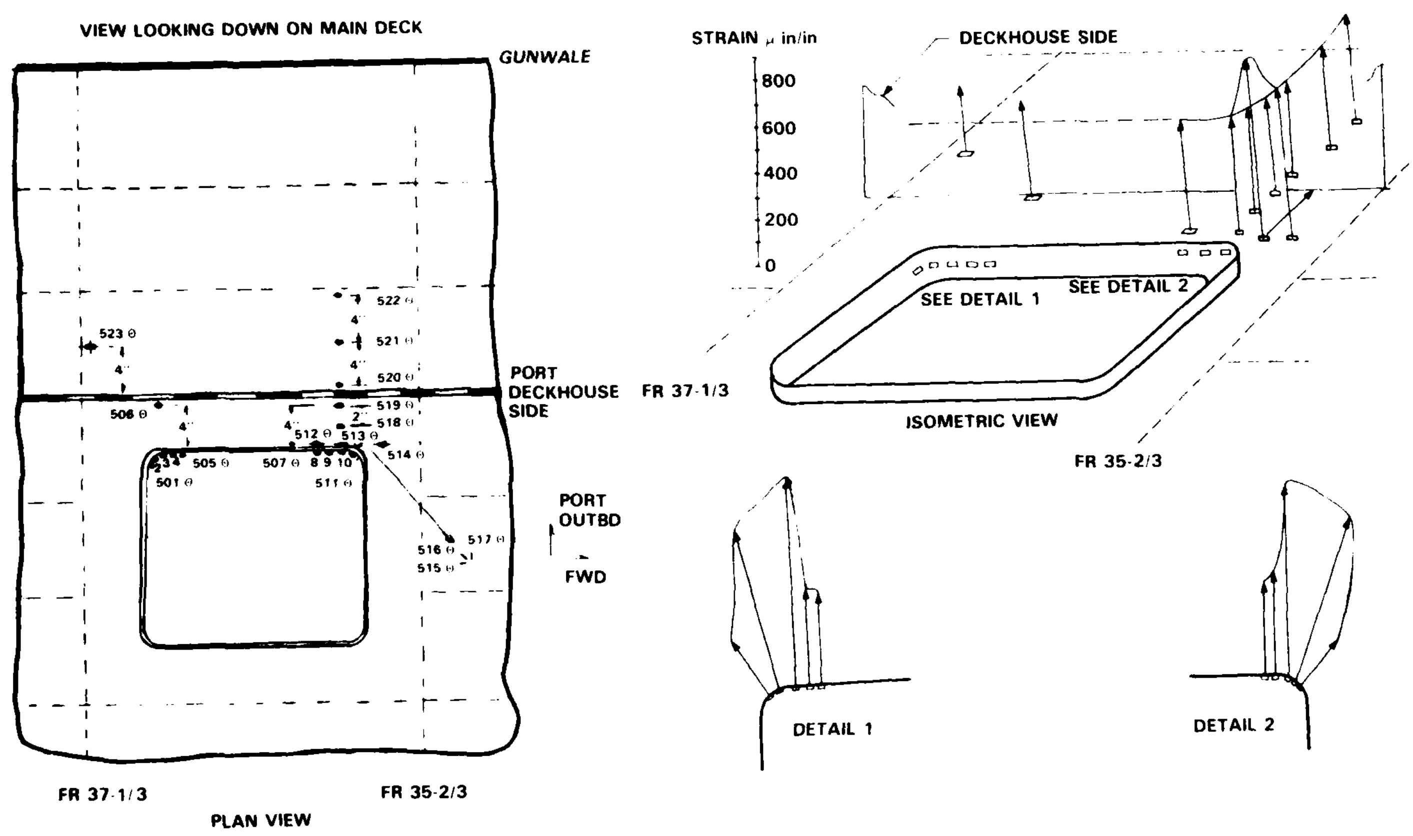


Figure C.33 - Maximum Measured Strain, 60 Degree Lag, Main Deck Access Hole at Frame 36, Port Side

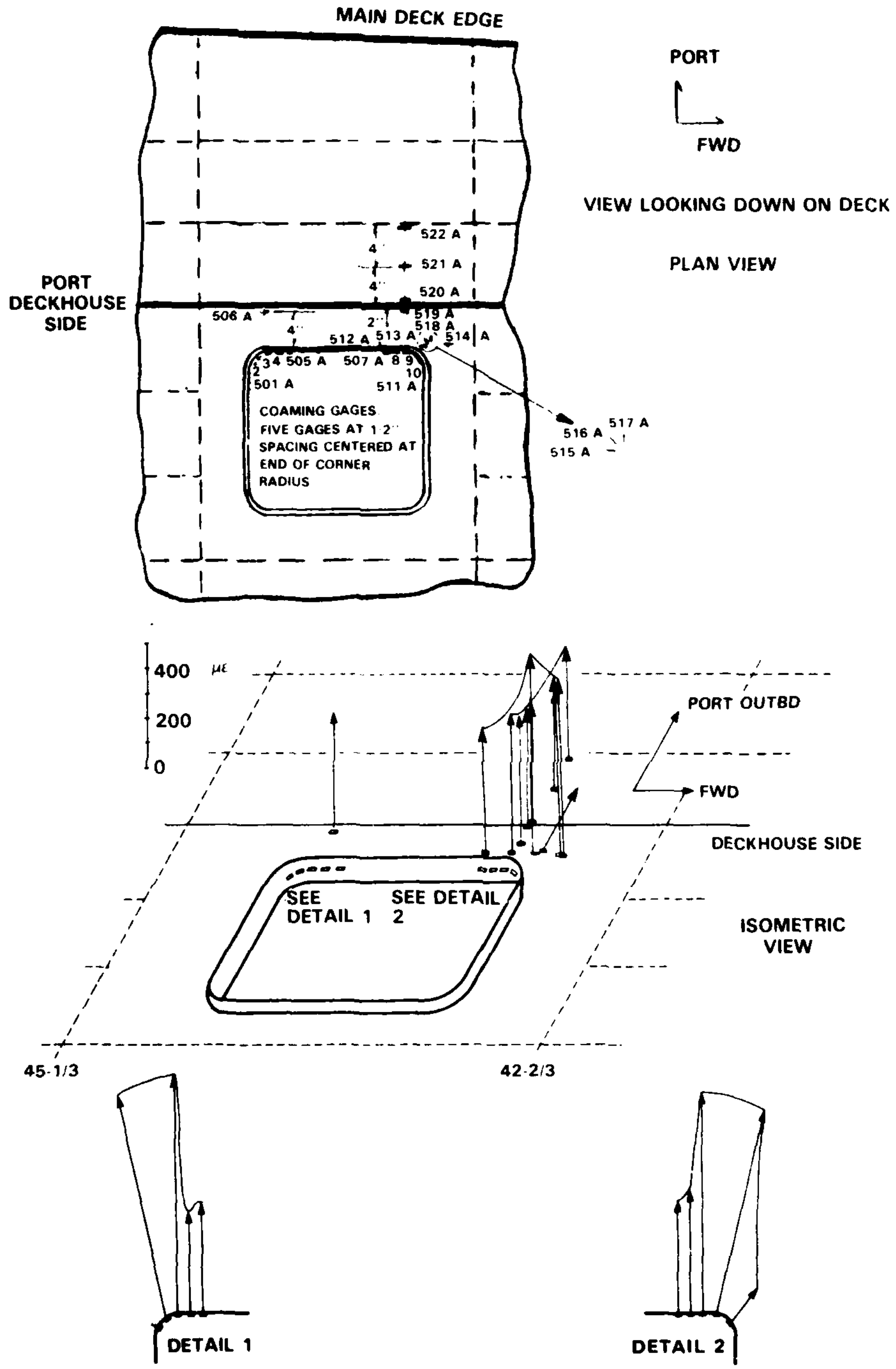
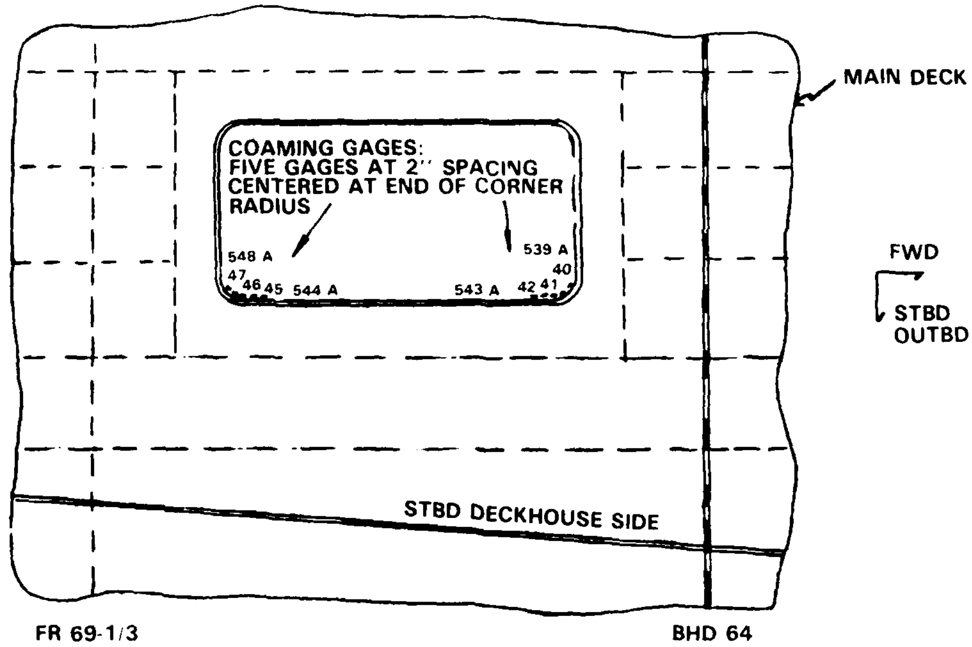


Figure C.34 - Maximum Measured Strain, 60 Degree Lag, Main Deck Access Hole at Frame 44, Port Side



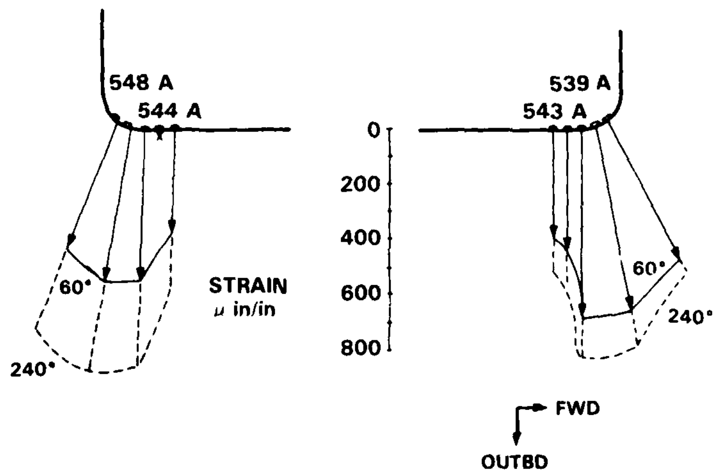


Figure C.35 - Maximum Measured Strain, 240 Degree Lag, Main Deck Hole at Frame 66 1/2, Starboard Side

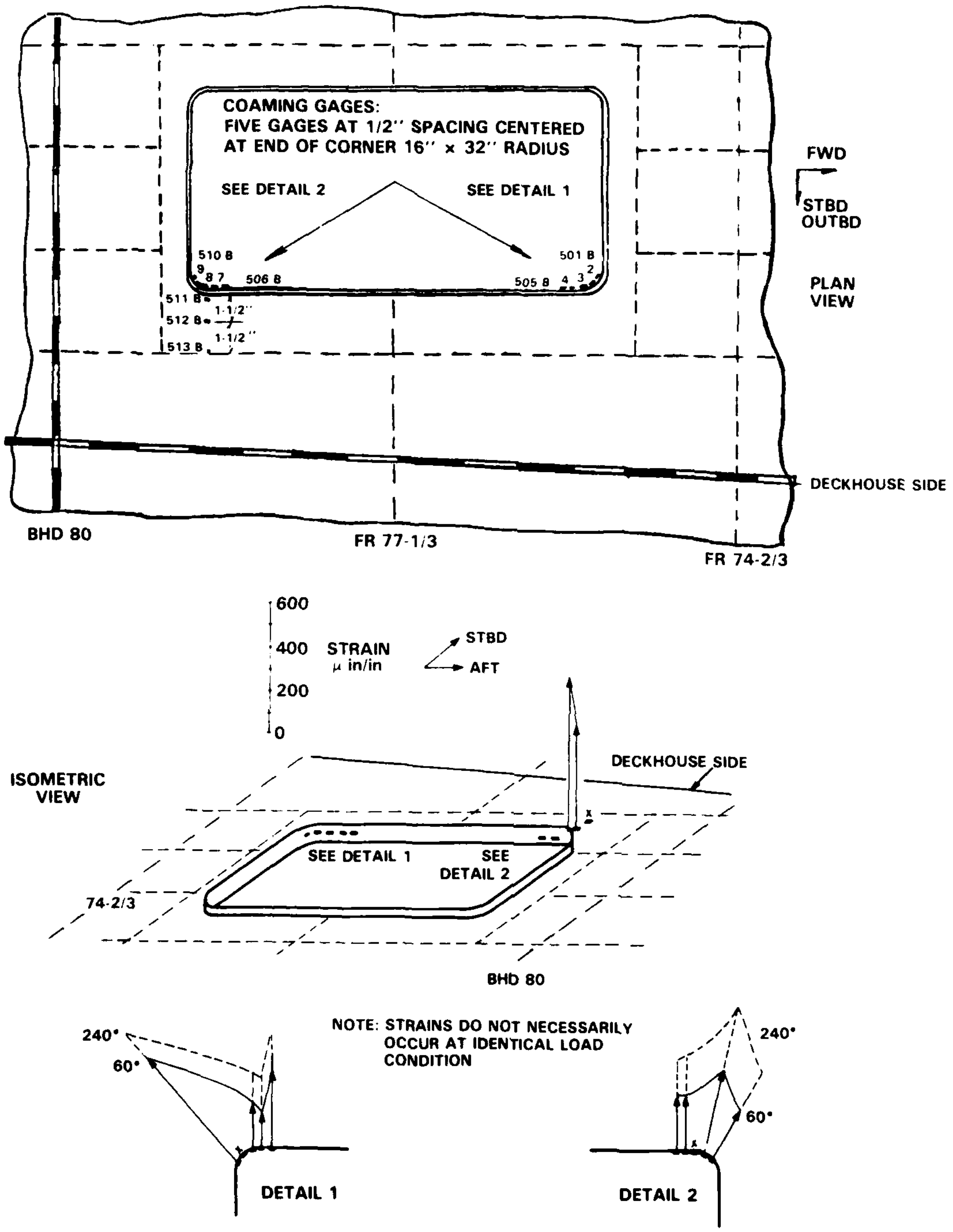


Figure C.36 - Maximum Measured Strain, 240 Degree Lag, Main Deck Access Hole at Frame 77 1/3, Starboard Side

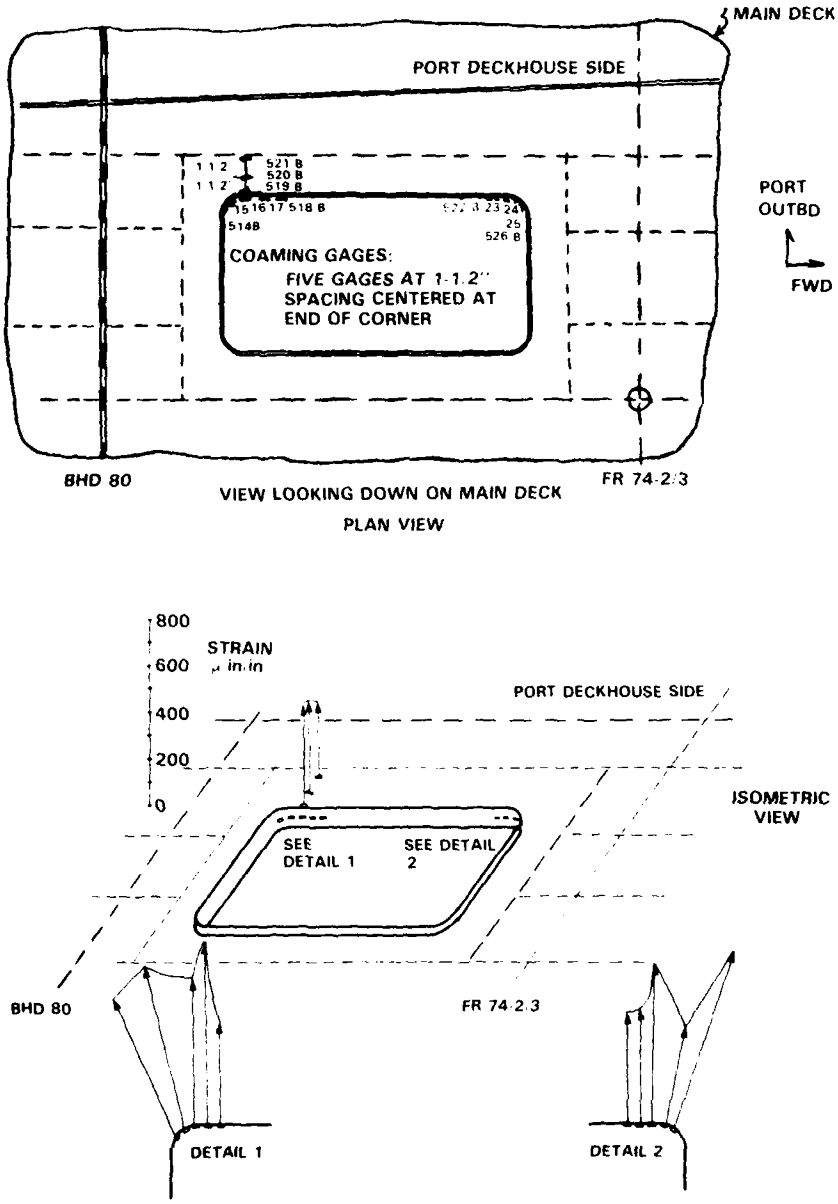
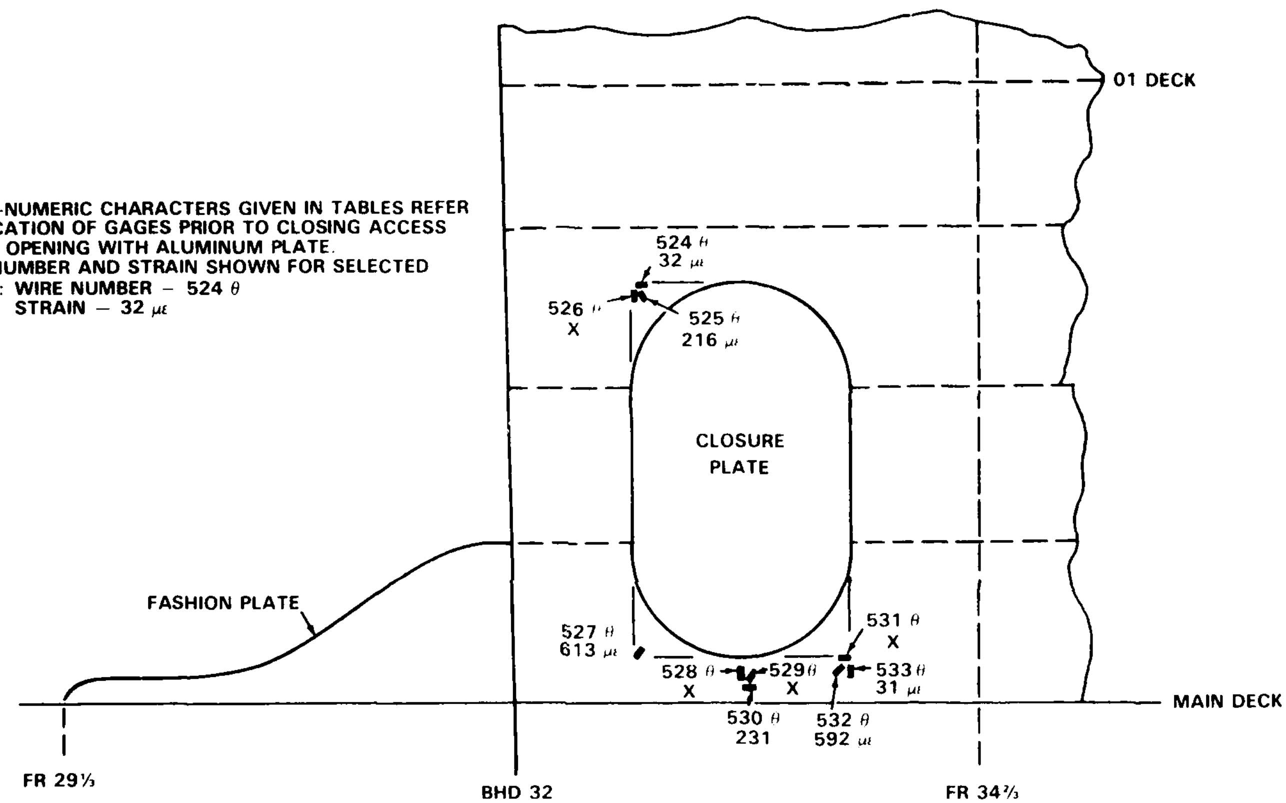


Figure C.37 - Maximum Measured Strain, 60 Degree Lag, Main Deck Access Hole at Frame 77 1/3, Port Side

NOTE:
1. ALPHA-NUMERIC CHARACTERS GIVEN IN TABLES REFER TO LOCATION OF GAGES PRIOR TO CLOSING ACCESS HATCH OPENING WITH ALUMINUM PLATE.
2. WIRE NUMBER AND STRAIN SHOWN FOR SELECTED GAGES: WIRE NUMBER – 524 θ
   STRAIN – 32 με



VIEW LOOKING INBOARD

Figure C.38 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 33, Port Side

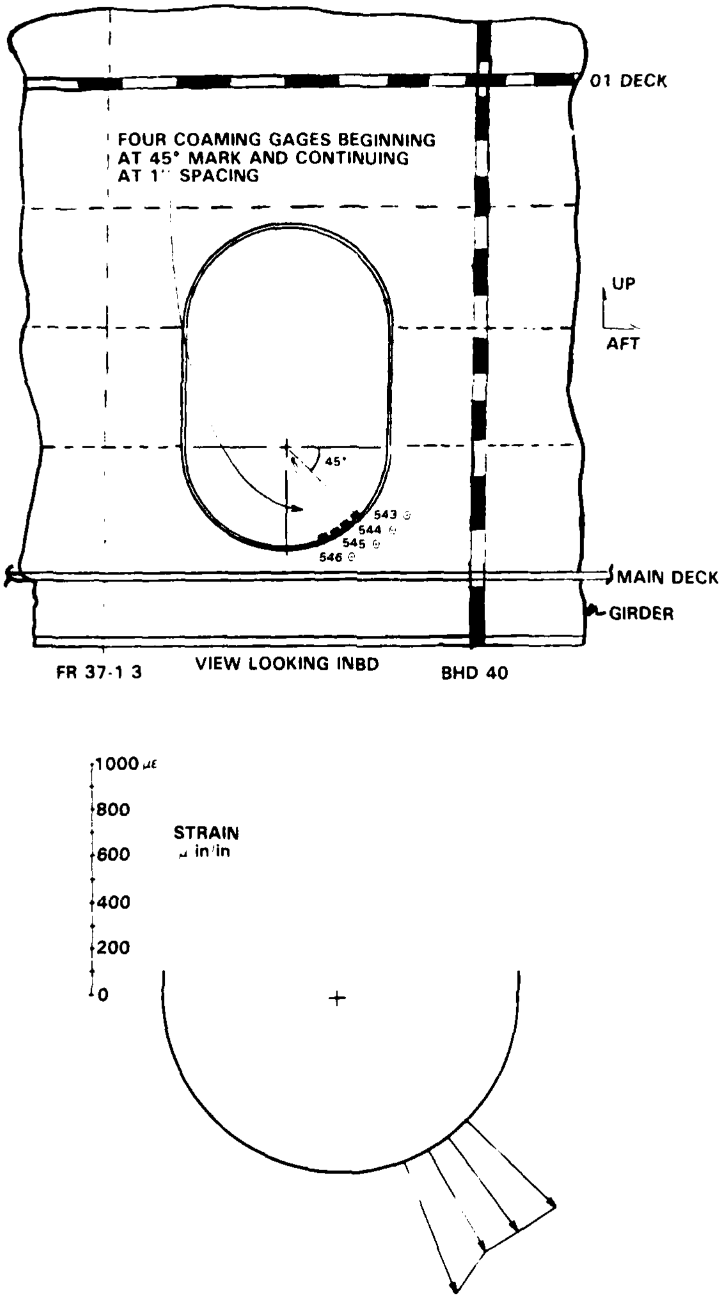


Figure C.39 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 39, Port Side

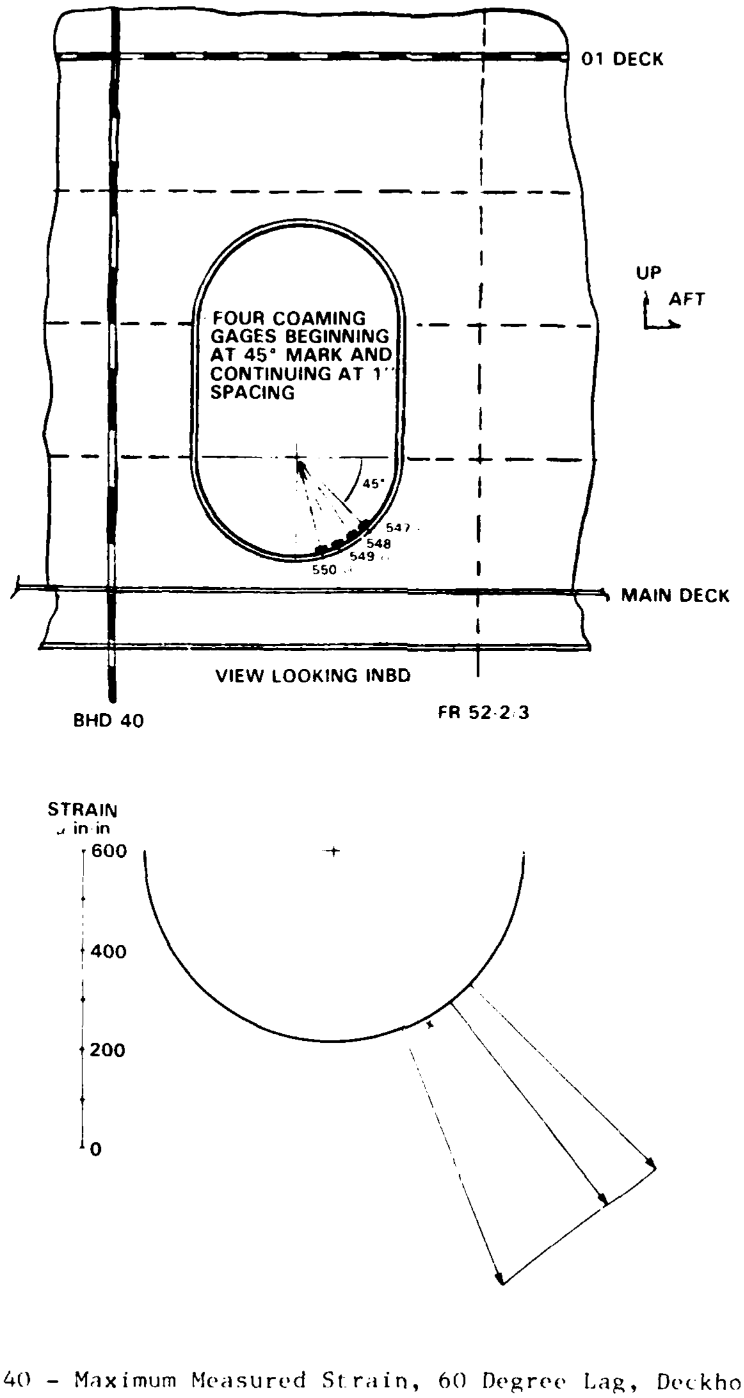


Figure C.40 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 41 1/2, Port Side

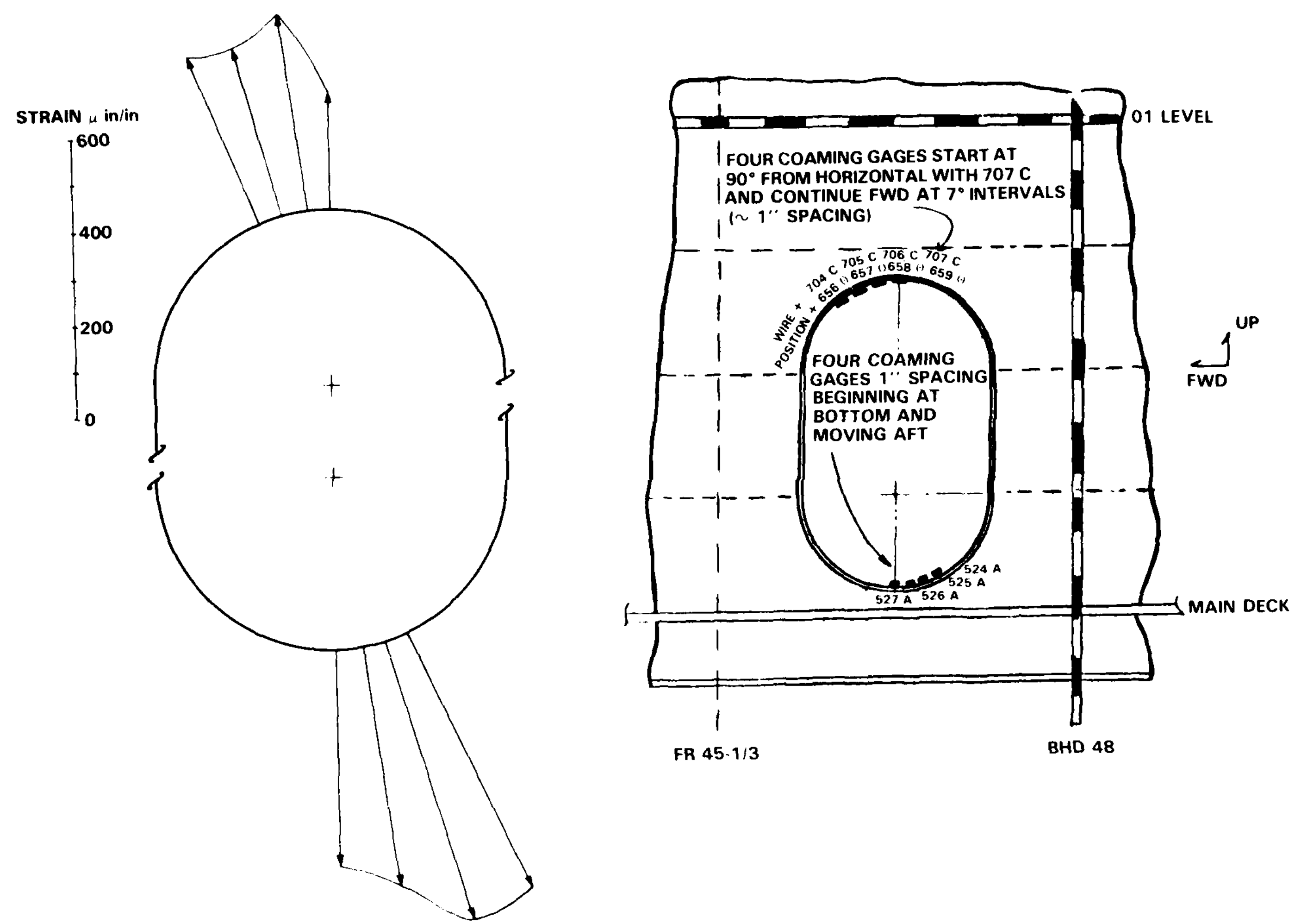


Figure C.41 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 46, Port Side

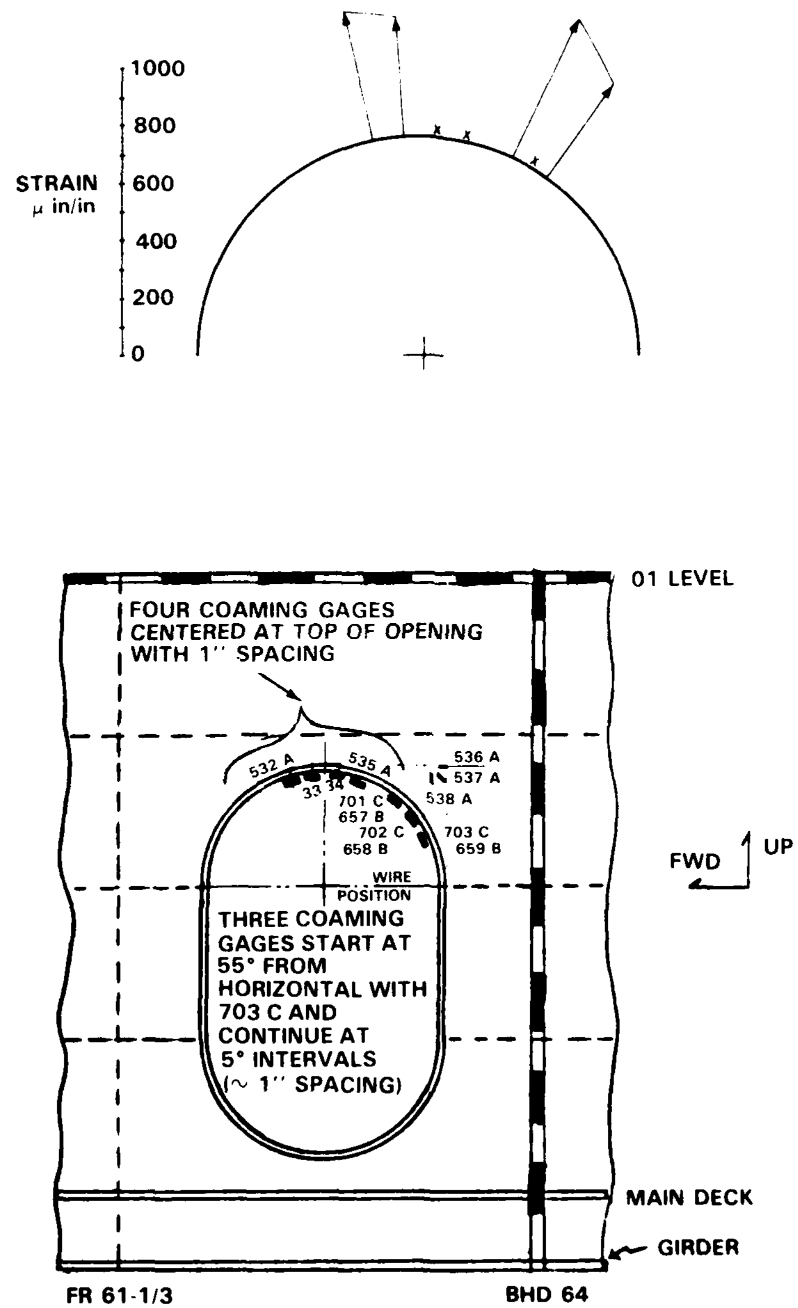
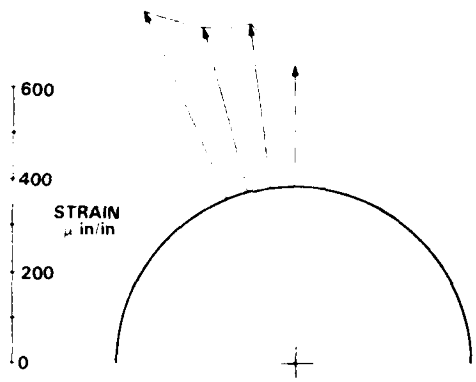


Figure C.42 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 62 1/2, Port Side



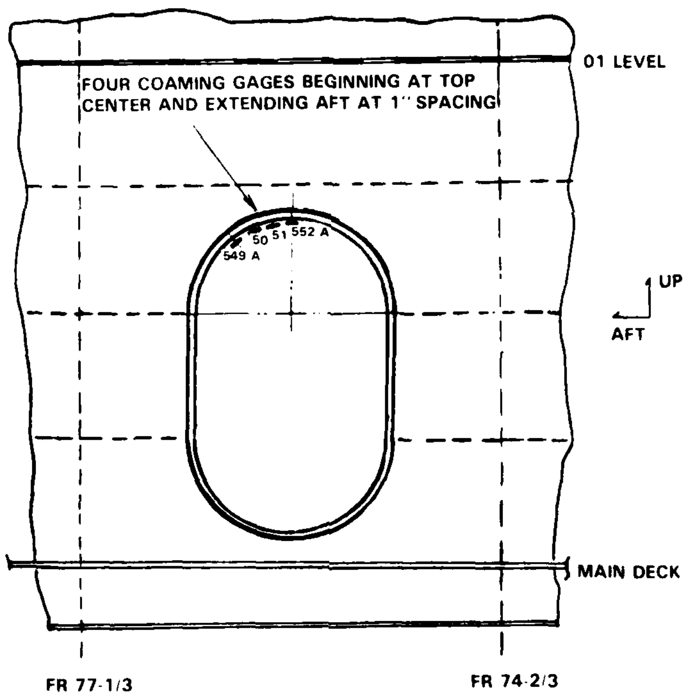


Figure C.43 - Maximum Measured Strain, 240 Degree Lag, Deckhouse Side Opening at Frame 76, Starboard Side

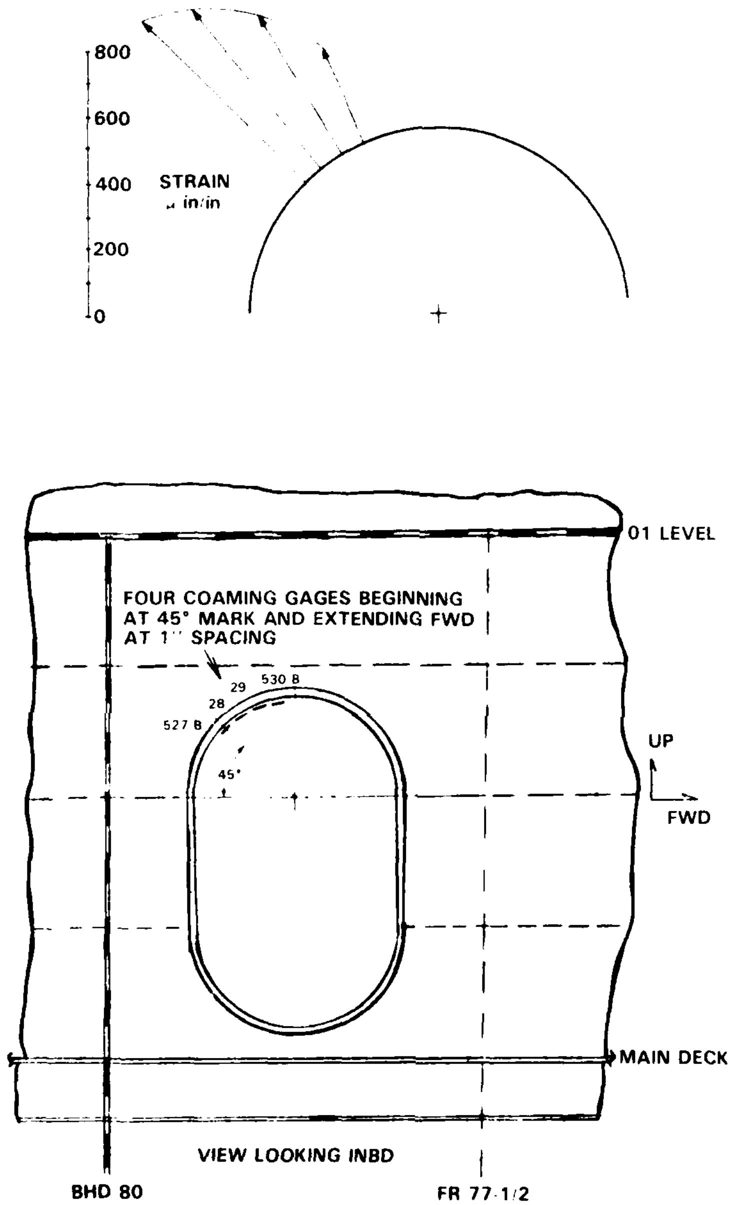


Figure C.44 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 78 1/2, Starboard Side

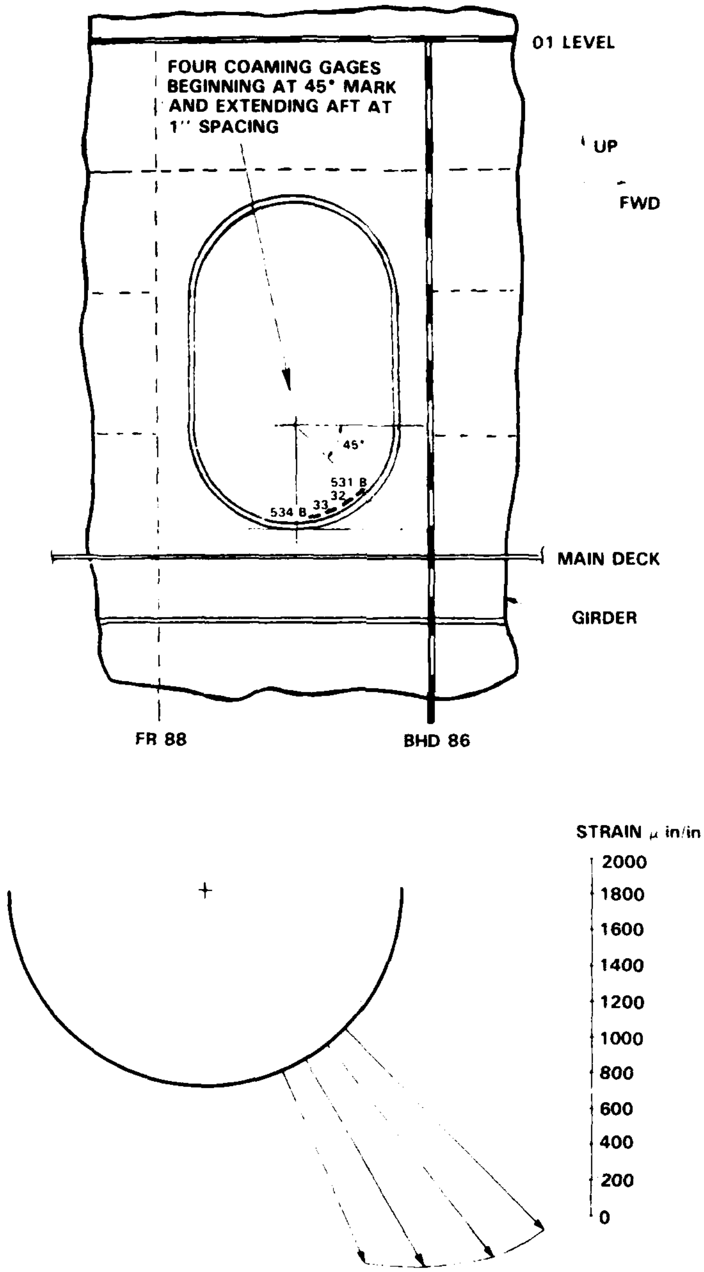


Figure C.45 - Maximum Measured Strain, 240 Degree Lag, Deckhouse Side Opening at Frame 87, Starboard Side

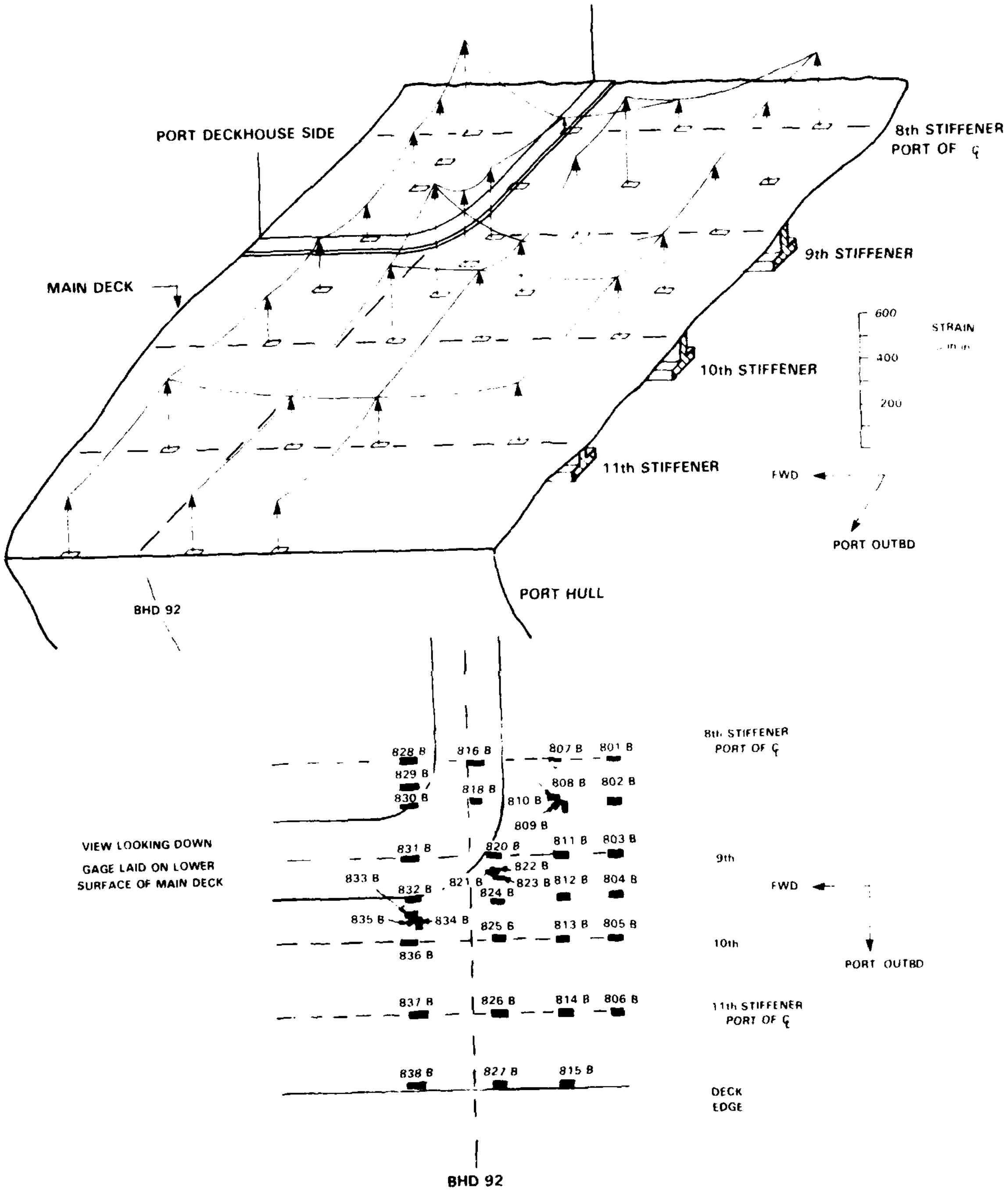


Figure C.46 - Port Corner of Deckhouse at Bulkhead 92, Vertical Sensitivity (9-22-77)

APPENDIX D

CALCULATED LOADS, MEASURED LOADS AND DEFLECTIONS, AND BENDING MOMENT PLOTS

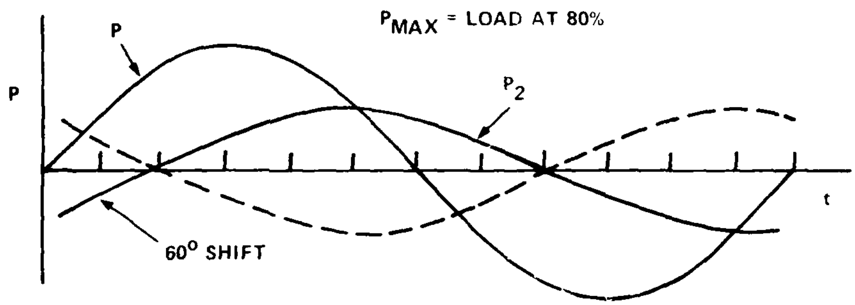
This appendix contains, in tabular form, summaries of (1) the calculated loads which were to be applied to the ASEM, (2) the loads as recorded during the four tests chosen for data analysis, (3) moment plots derived from the recorded loads of the four tests, and (4) measured deflections which were recorded during the four tests.

The vertical loads are given in Table D.1. Both vertical hog and sag loads at each load increment are given. Note the hog or sag STILLWATER + ZERO STRESS values are at the same offset from ZERO STRESS. Also, for example, at 40 keel, even though the load at 80% was 11,090 lb in the sag condition and was -54,906 lb in the hog condition, the change (Δ) in load from zero + stillwater is equal (32,998 lb). The 90 or 100% loads are not included since the ASEM was not loaded to these magnitudes during the static tests. Also note that the rows associated with starboard LOAD CELL(s) are blank because no loads were applied during the vertical-loads-only tests.

The lateral loads are given in Table D.2. Both lateral hog and sag loads at each increment are given. The sag and hog load values at each load increment are equivalent in magnitude and opposite in sign. A lateral sag and hog condition is defined such that a hydraulic actuator/load cell arrangement will produce the same sign on the "readout" as would a vertical hog or sag condition (see Figure D.1). The rows associated with vertical load cells are left blank after the zero and stillwater loads are given. When lateral loads only were applied to the model, it was loaded vertically until the stillwater condition was reached and then lateral loads were applied.

Table D.3 summarizes the calculated loads to be applied to the model for the combined vertical and lateral loading test with a 60° phase shift. Loads are applied in a sinusoidal fashion (necessary for the cyclic tests), thus allowing the phase shift. The zero, stillwater, and vertical incremental loads are the same as the

vertical loading test but the lateral loads are derived from the equation $P_2 = P_{max}/2 \sin(\omega t - 60°)$. That means, when a vertical load is applied at a particular load frame and load level (10%, 20%, etc.), a corresponding lateral load is applied whose magnitude is determined from the above relation.



$$P = P_{MAX} \sin \omega t$$

$$P_2 = \frac{P_{MAX}}{2} \sin(\omega t - 60°)$$

Table D.4 is a summary of the loads for the combined vertical and lateral loading test with a 240° phase shift. The explanation of this table is similar to that of Table D.3. Basically, the maximum lateral loads do not occur at the same time as the maximum vertical loads.

Tables D.5, D.6, D.7, and D.8 are tabular summaries of the loads which were monitored and recorded during the vertical test of 9/22/77, the lateral test of 10/28/77, the 60° combined loading test of 10/14/77, and the 240° combined loading test of 10/26/77, respectively. The UNLOCK load readings are obtained with the hydraulic system depressurized. Except for fixed support loads, these values will nominally be low. The system is then pressurized; next, ZERO and/or ZERO TEST conditions are read. The lateral loads should have been close to zero in magnitude; if not, they were adjusted accordingly and then recorded. Loads were then applied to produce a stillwater BM in the model. Up to this point, the loads for Tables D.5 through D.8 were similar in magnitude. However, the remainder of the loading conditions of the four tests were different. Table D.5 shows the loads read on all channels during the vertical-only-loading test. The lateral loads were nominally

near zero, and only the vertical readings showed significant changes. Table D.6 shows the loads read on all channels during the lateral-only-loading test. The vertical readings were nominally near the stillwater readings throughout the test, and the lateral readings indicated the load increments associated with load levels. There are a total of 30 load conditions, not including the stillwater load condition.

Tables D.7 and D.8 are probably the most significant in that the loads shown here are the same as those during the cyclic tests. The load values recorded in the lateral offset column require a brief explanation. The vertical loads are similar to loads of the vertical test, and the lateral test stillwater loads. However, the lateral loads are now representative of the phase shift discussed earlier. During the test, as the model was loaded, any load magnitude adjustment (if required) was done at that time.

Figures D.2 through D.9 are ASEM moment plots derived from the loads applied to the model during the associated tests. The magnitude of the maximum moment of the lateral-loads-only test (Figures D.3 and D.4) is one-half that of the vertical-loads-only test (Figure D.1) (4.3×10^6 ft-lb versus 2.1×10^6 ft-lb). In general, the applied BM were very close to the calculated bending moments as seen in Figure D.1.

Tables D.9 through D.12 are compilations of the absolute deflections as measured during Tests 1 through 4, respectively. The deflection plots in Figures 11 through 14 are deflections relative to stillwater. During Test 1, only vertical loads were applied, thus deflection readings of the starboard linear potentiometers showed little or no change at each load increment. During Test 2, after the stillwater loads were applied to the model, only lateral loads were subsequently applied, thus deflection readings of the keel linear potentiometers showed little or no change at each load increment. The deflections in Tables D.11 and D.12 were continuously changing as both lateral and vertical laods were applied to the model. Any deflection position, other than at Bulkheads 24 and 86, which showed little or no change in displacement during these two tests, was an indication that the instrumentation was probably malfunctioning.

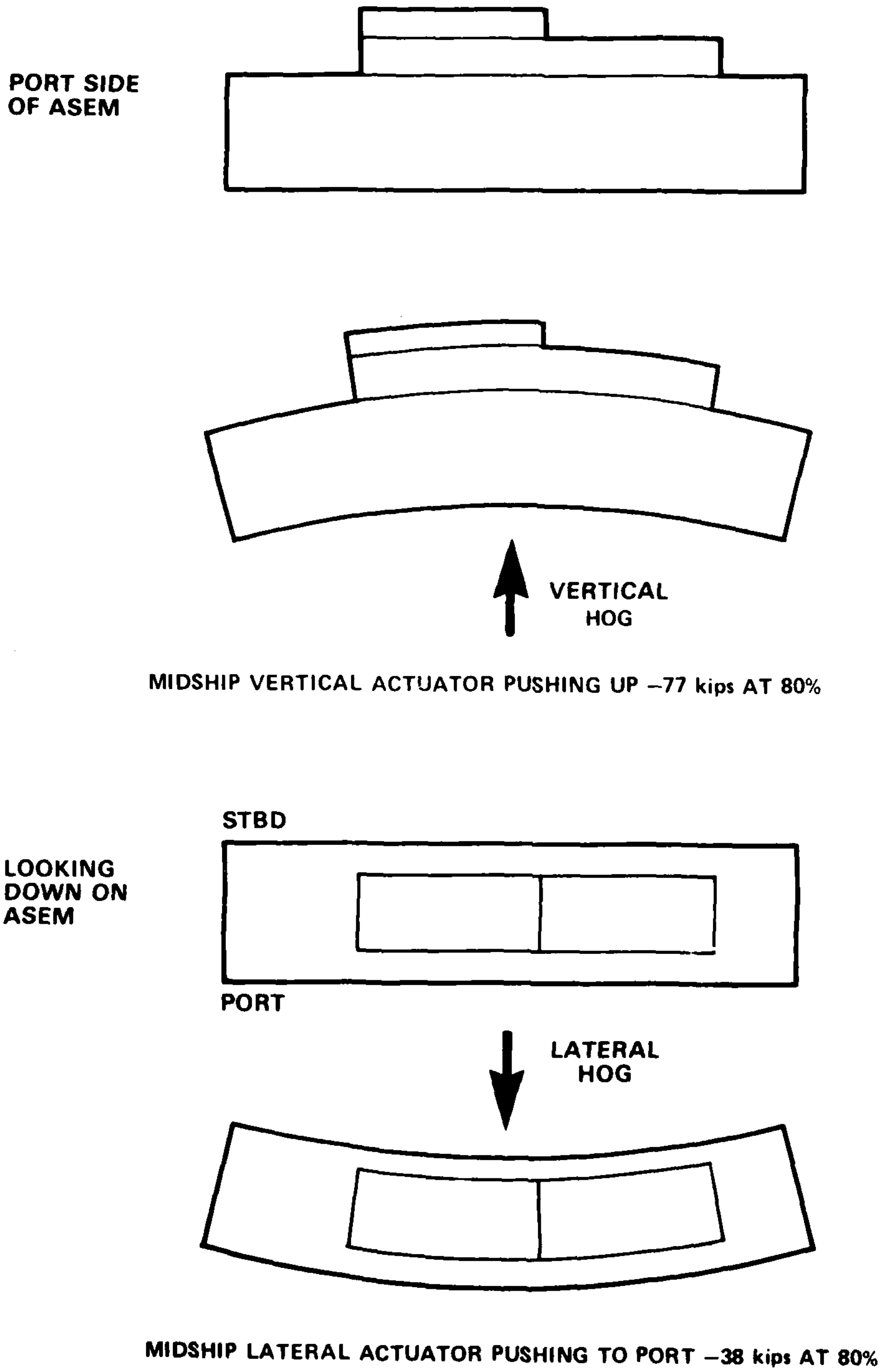


Figure D.1 - Vertical and Lateral Hog Condition

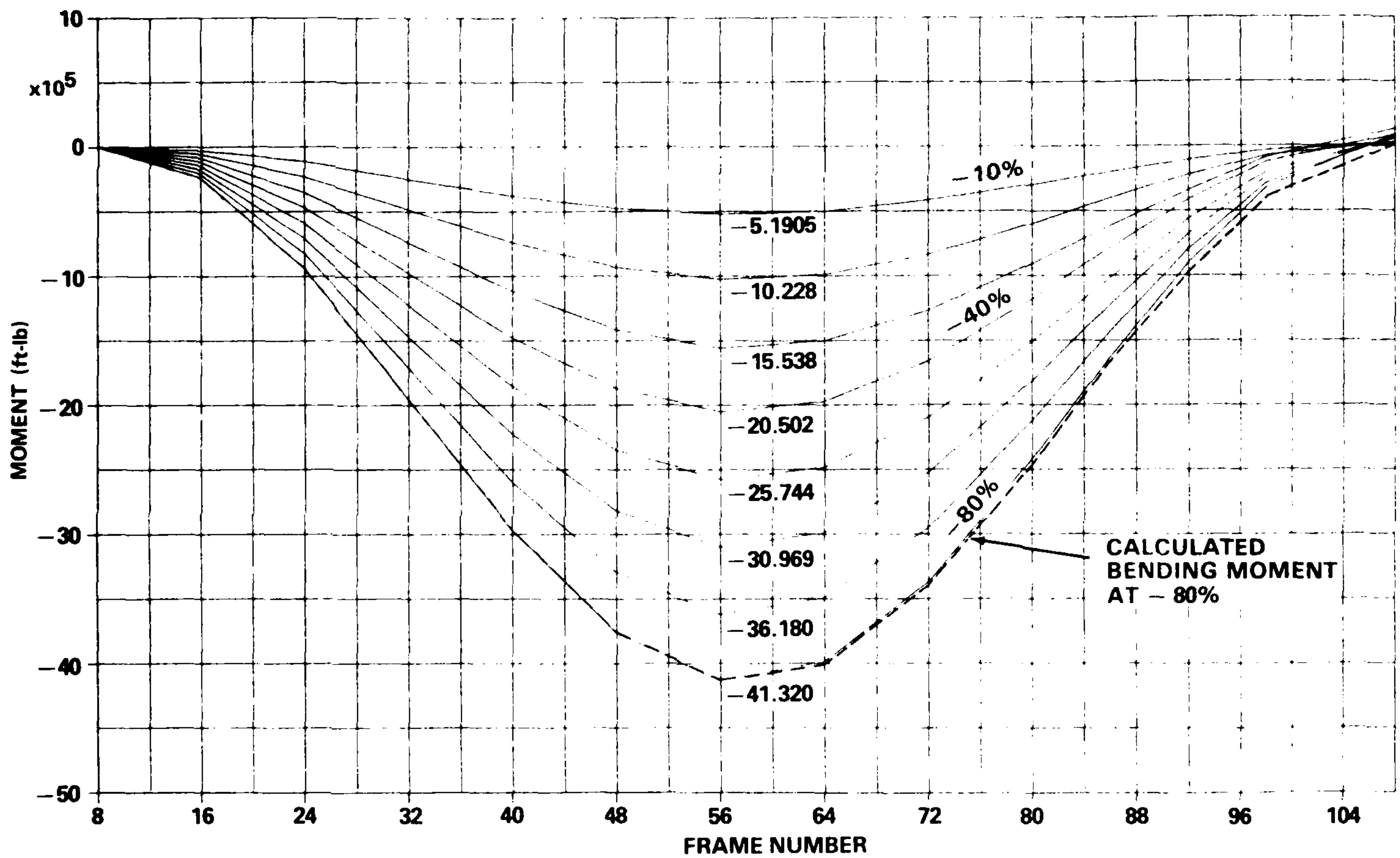


Figure D.2 - ASEM Moment Plots of Test 1 (-10 Percent to -80 Percent)

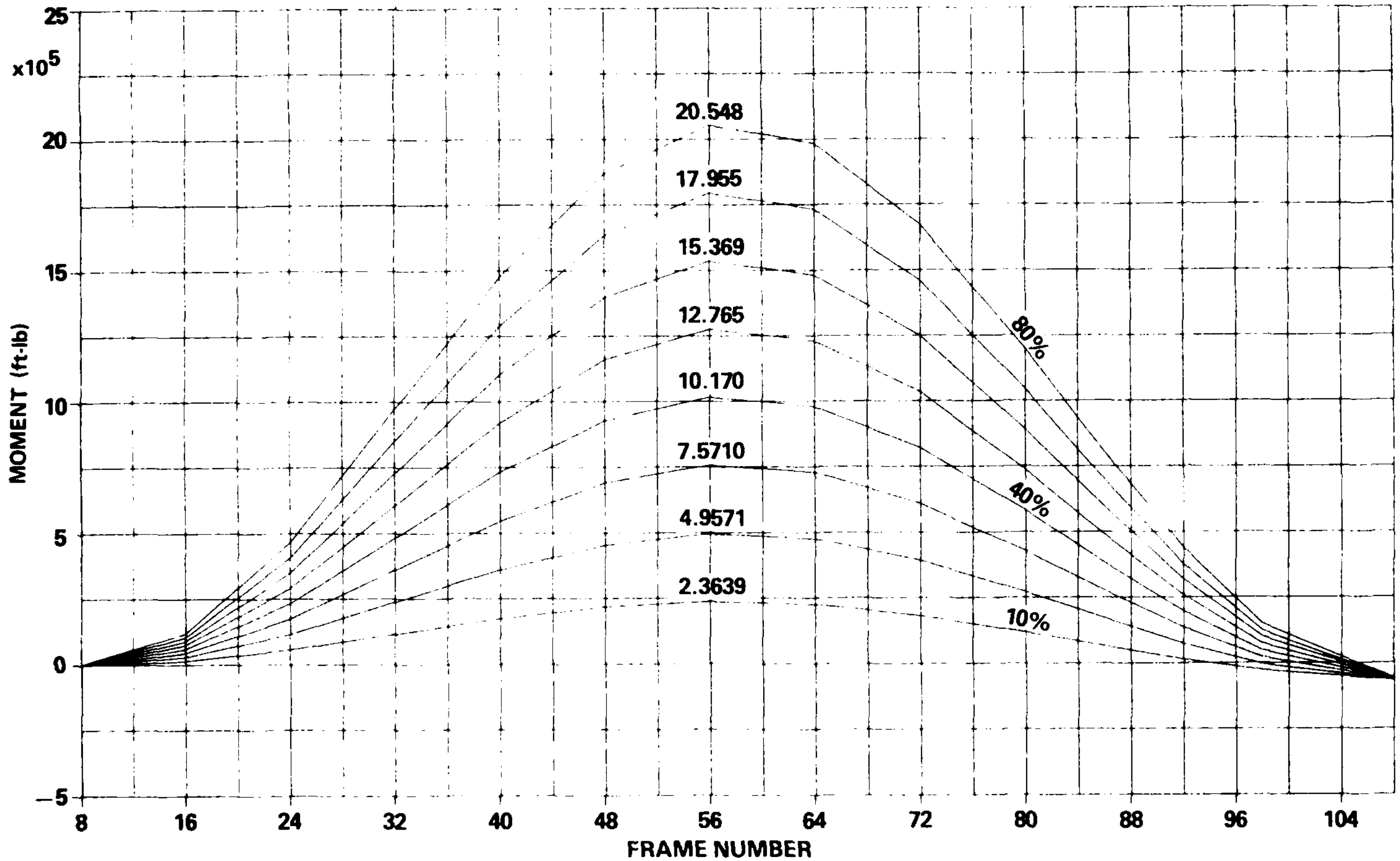


Figure D.3 - ASEM Moment Plots of Test 2 (10 Percent to 80 Percent)

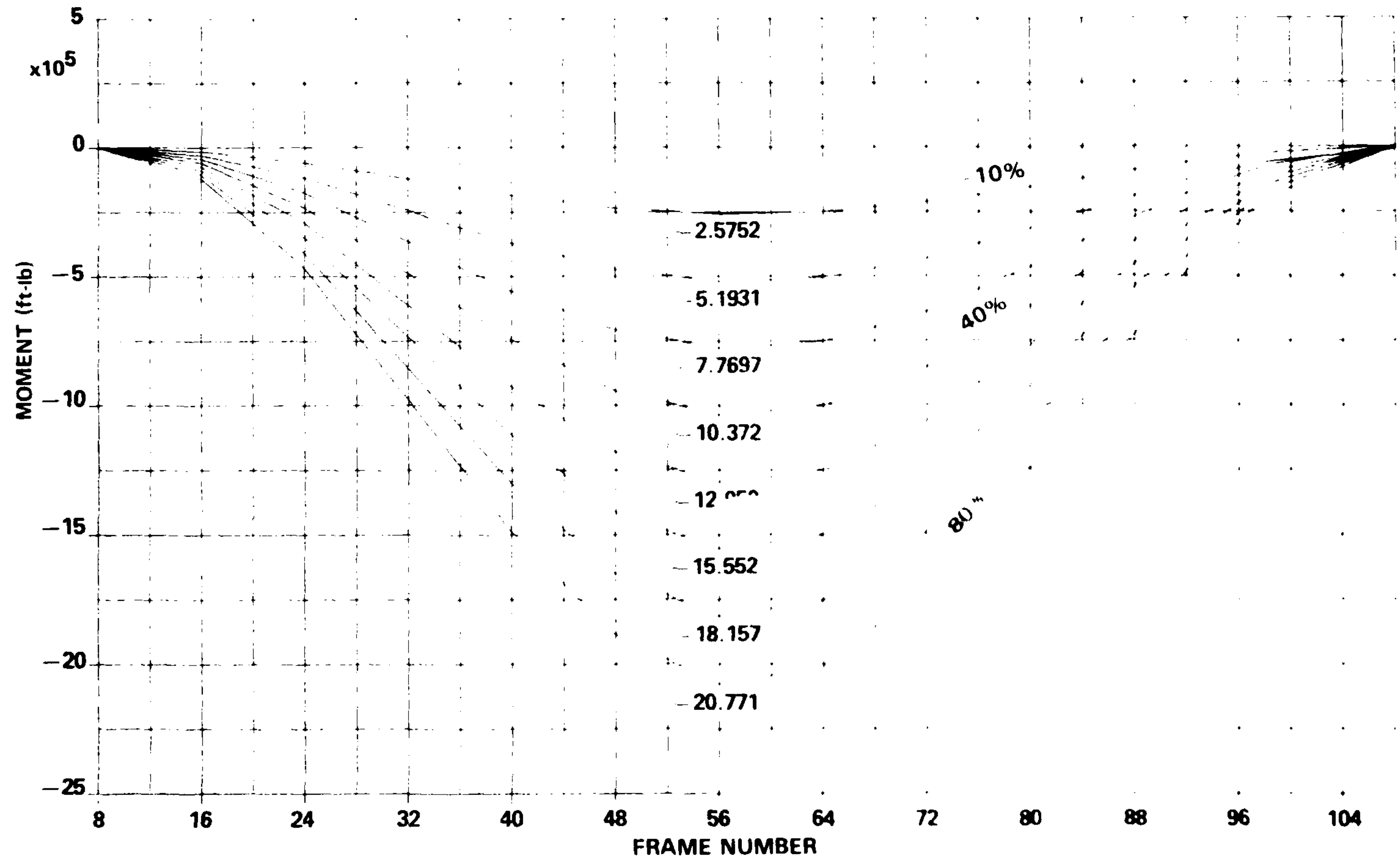


Figure D.4 - ASEM Moment Plots of Test 2 (-10 Percent to -80 Percent)

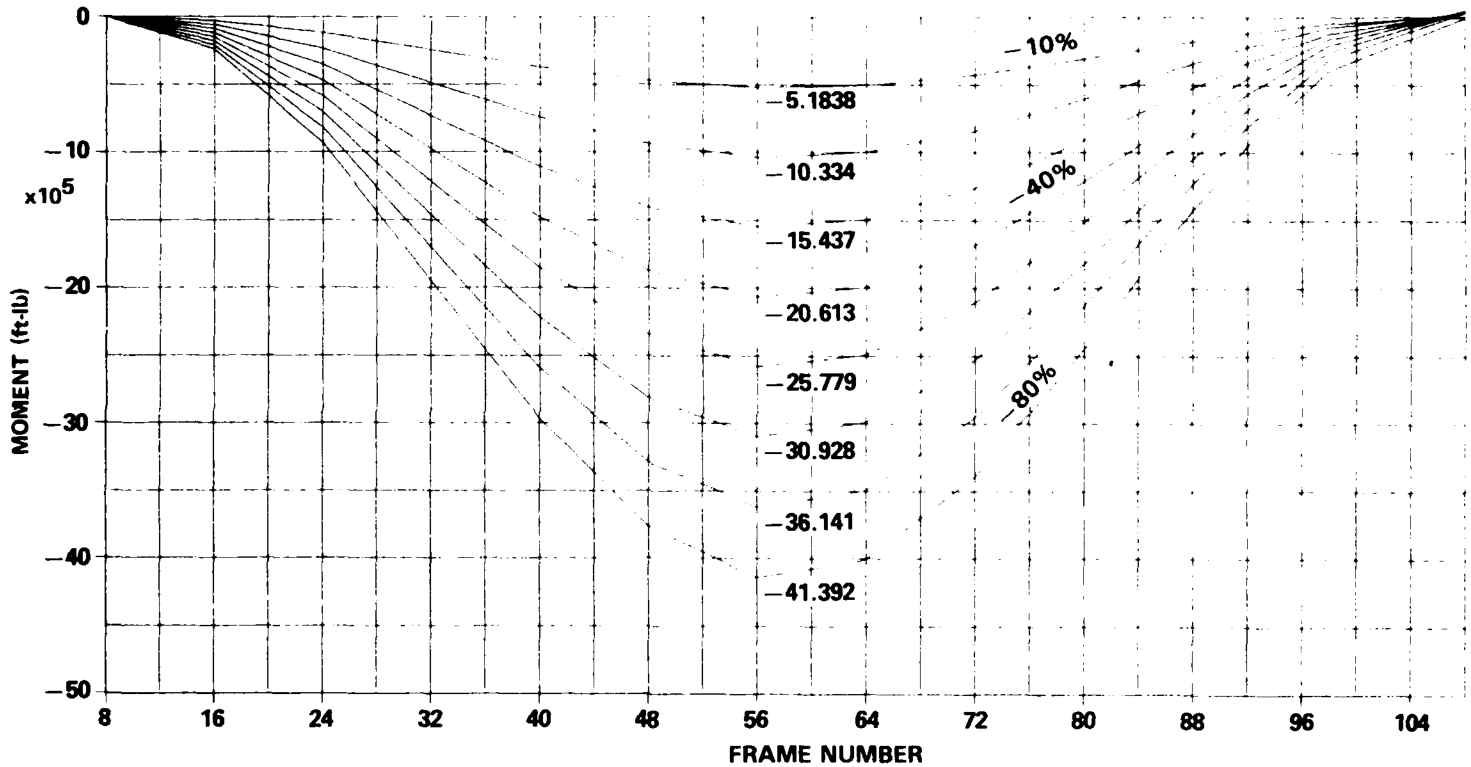


Figure D.5 - ASEM Moment Plots of Test 3, Vertical Moment
(-10 Percent to -80 Percent)

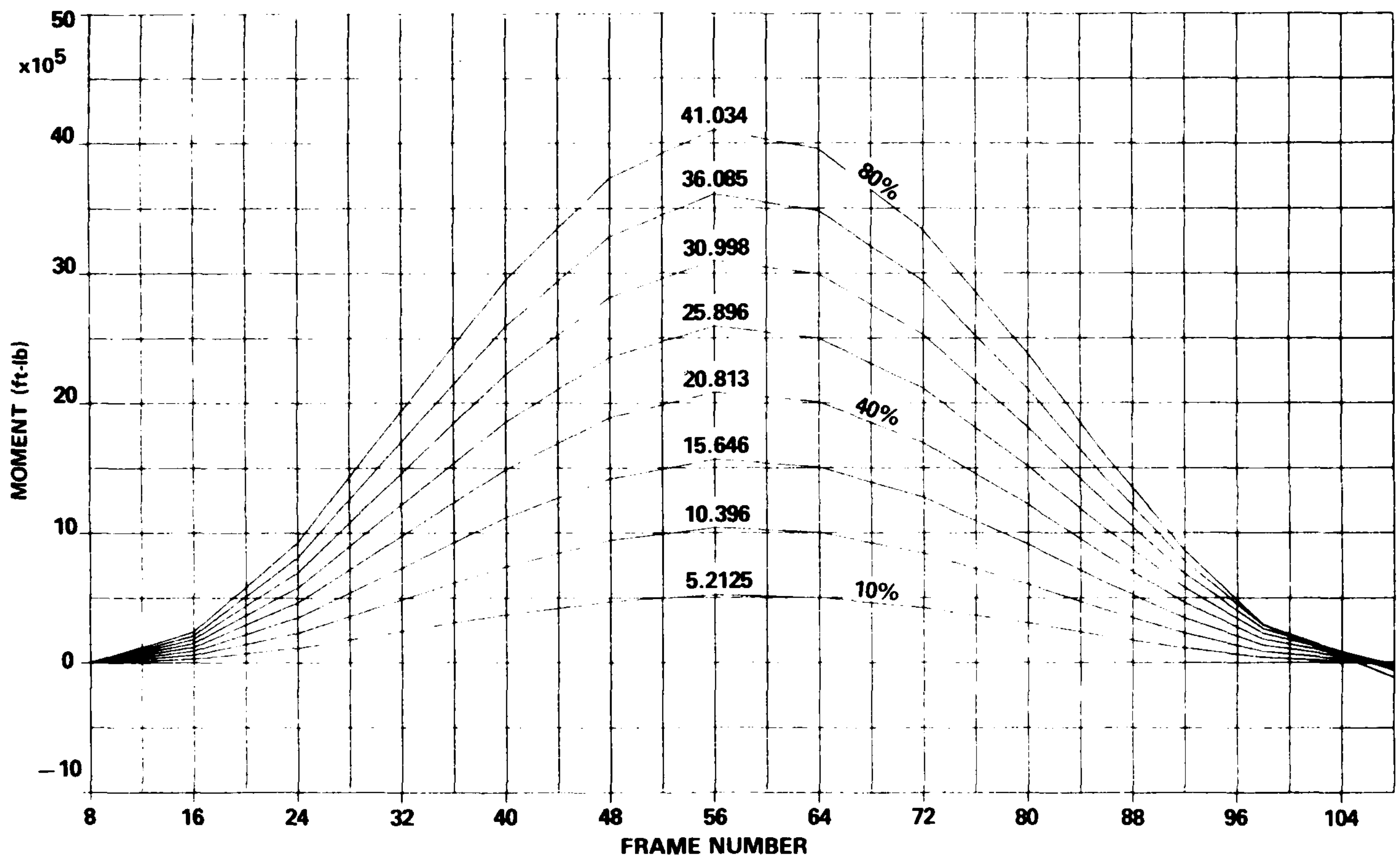


Figure D.6 - ASEM Moment Plots of Test 3, Vertical Moment
(10 Percent to 80 Percent)

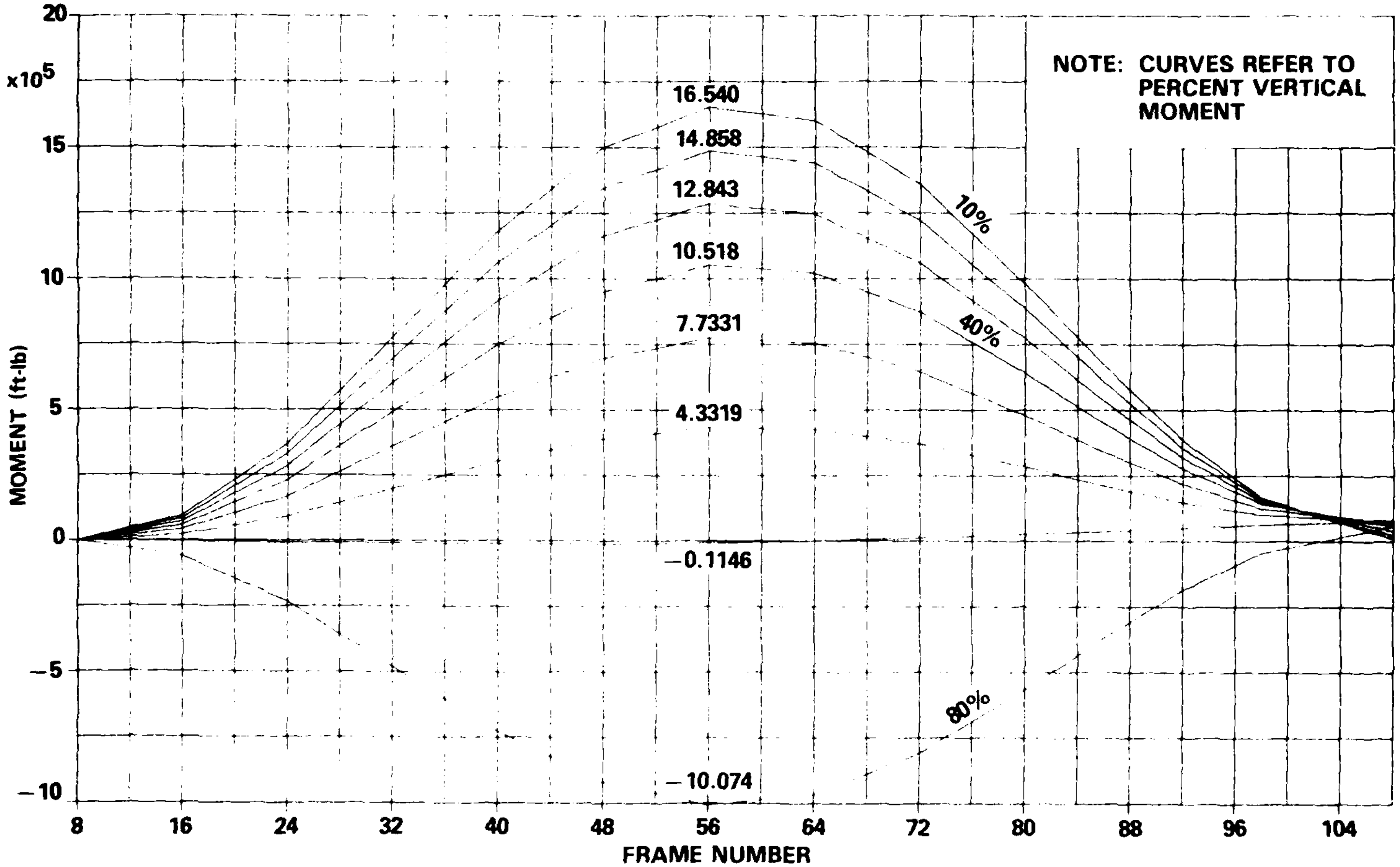


Figure D.7 - ASEM Moment Plots of Test 3, Lateral Moment Corresponding to 10 Percent through 80 Percent Vertical Moment

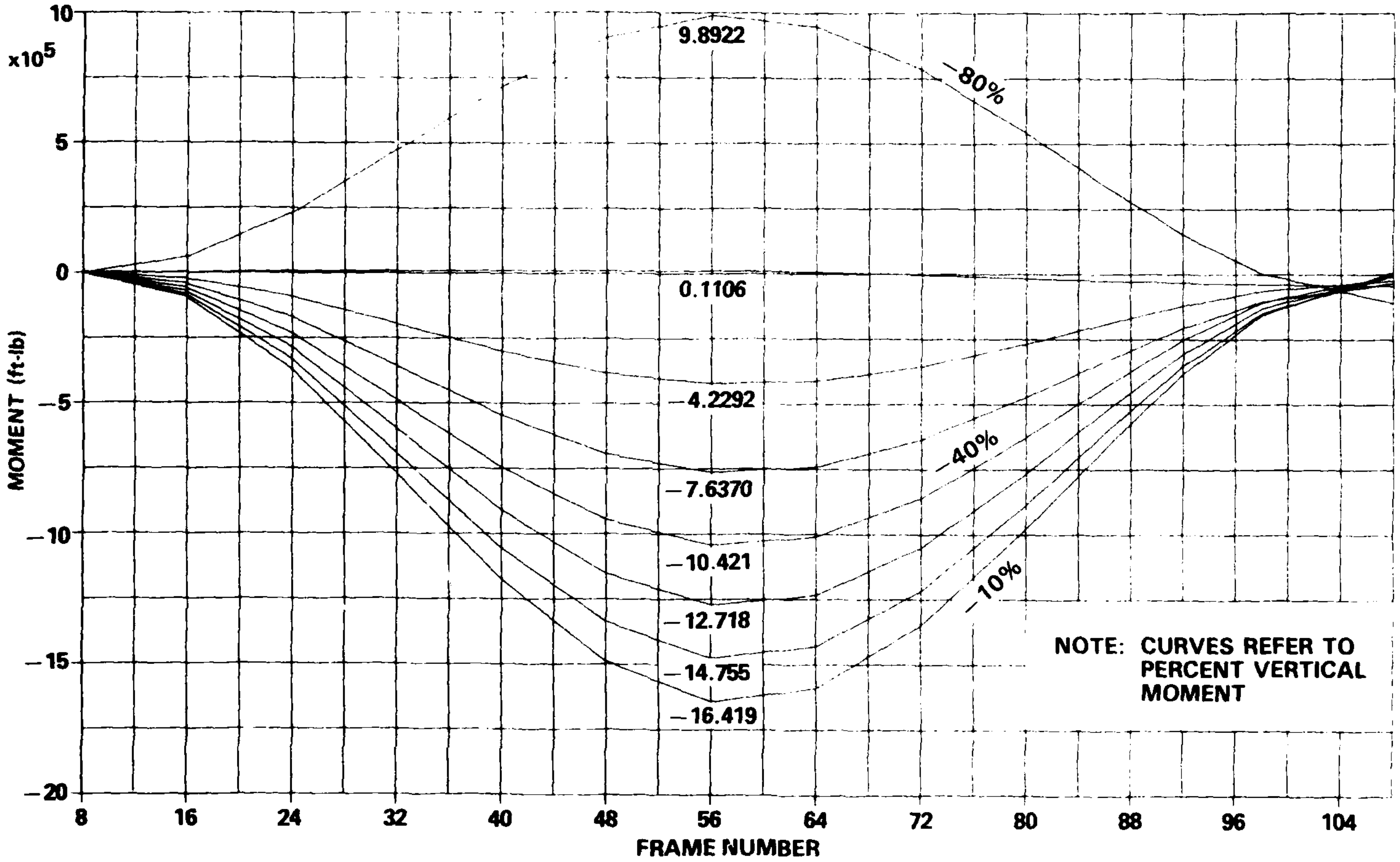


Figure D.8 - ASEM Moment Plots of Test 3, Lateral Moment Corresponding to -10 Percent through -80 Percent Vertical Moment

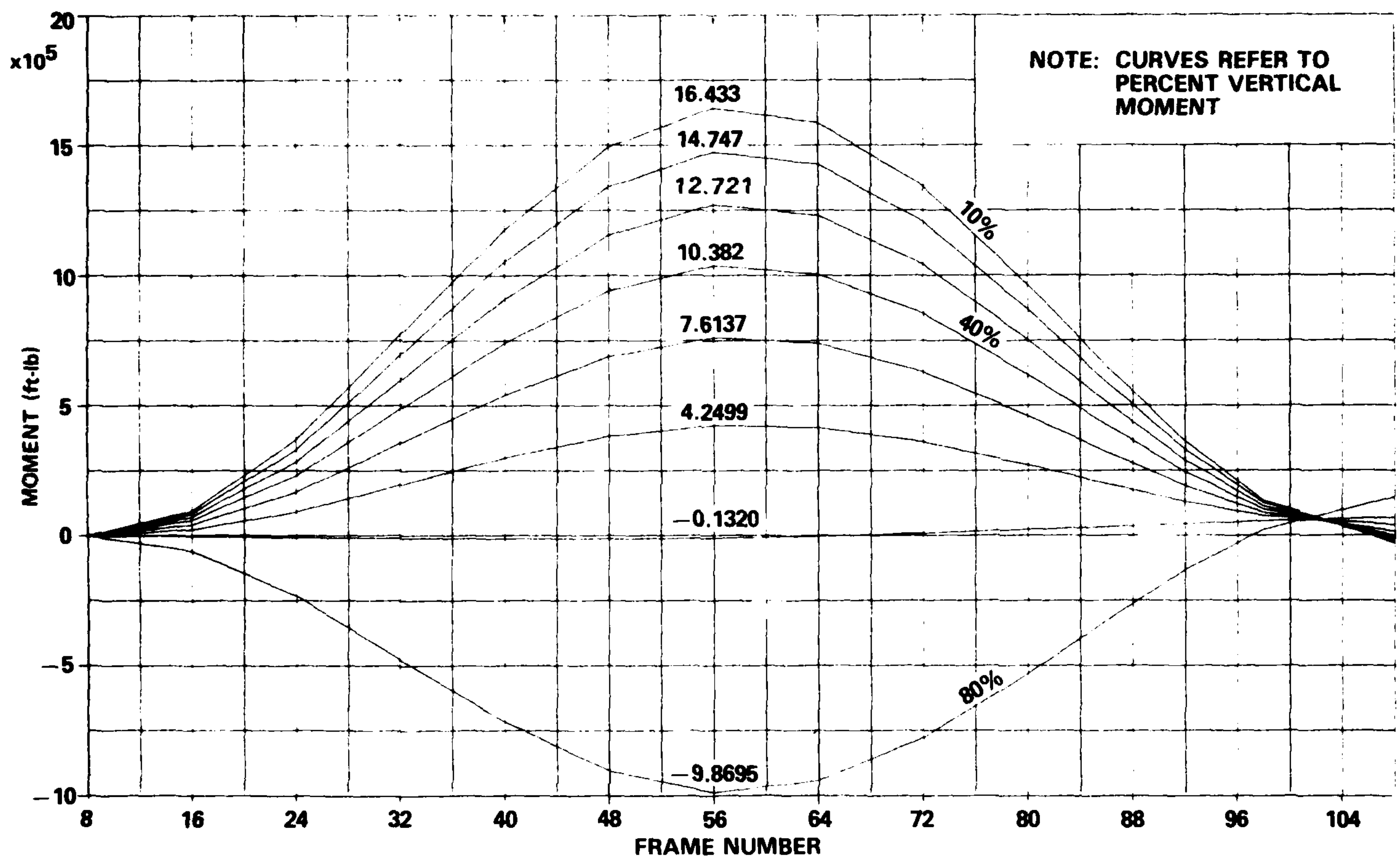


Figure D.9 - ASEM Moment Plots of Test 4, Lateral Moment Corresponding to 10 Percent through 80 Percent Vertical Moment

TABLE D.1 - ASEM STATIC TEST 1--CALCULATED LOADS

BATCO No.	Load Cell	Part A Load Condition, SAG (lb): Zero Stress	Still Water + Zero Stress	Percent Load: 10% ↑	20% ↑	30% ↑	40% ↑	50% ↑	60% ↑	70% ↑	80% ↑
5	108 Stbd										
6	108 Keel	-3,372	4,139	-1,879	-7,897	-13,920	-19,934	-25,952	-31,979	-37,983	-44,006
7	98 Stbd										
8	98 East	-5,986	-881	-4,971	-9,062	-13,155	-17,242	-21,332	-25,429	-29,509	-33,603
9	98 West	-5,986	-881	-4,971	-9,062	-13,155	-17,242	-21,332	-25,429	-29,509	-33,603
10	92 Stbd										
11	92 Keel	-11,547	-6,726	-10,589	-14,451	-18,317	-22,177	-26,039	-29,908	-33,761	-37,627
12	86 Stbd										
13	86 Keel	-12,144	-10,371								
14	80 Stbd										
15	80 Keel	-13,893	-16,203	-14,352	-12,502	-10,650	-8,801	-6,950	-5,096	-3,250	-1,398
16	72 Stbd										
17	72 Keel	-13,319	-21,029	-14,851	-8,674	-2,491	3,682	9,859	16,046	22,209	28,392
18	64 Stbd										
19	64 East	-7,120	-12,735	-8,235	-3,736	768	5,264	9,764	14,270	18,759	23,263
20	64 West	-7,120	-12,735	-8,235	-3,736	768	5,264	9,764	14,270	18,759	23,263
21	56 Stbd										
22	56 East	-7,690	-13,693	-8,883	-4,074	739	5,546	10,355	15,172	19,970	24,784
23	56 West	-7,690	-13,693	-8,883	-4,074	739	5,546	10,355	15,172	19,970	24,784
24	48 Stbd										
25	48 Keel	-14,412	-24,202	-16,357	-8,513	-662	7,177	15,022	22,878	30,704	38,556
26	40 Stbd										
27	40 Keel	-16,760	-21,908	-17,783	-13,659	-9,531	-5,409	-1,284	2,847	6,962	11,090
28	24 Stbd										
29	24 East	-5,885	-2,024								
30	24 West	-5,885	-2,024								
31	16 Stbd										
32	16 East	-4,536	757	-3,484	-7,725	-11,969	-16,207	-20,448	-24,695	-28,926	-33,171
33	16 West	-4,536	757	-3,484	-7,725	-11,969	-16,207	-20,448	-24,695	-28,926	-33,171
34	8 Stbd										
35	8 Keel	-2,790	2,783	-1,683	-6,148	-10,617	-15,079	-19,545	-24,017	-28,472	-32,941
36	8 Surge										

TABLE D.1 (Continued)

BAFCO No.	Load Cell	Part B Load Condition, HOG (lb) Zero Stress	Still Water + Zero Stress	Percent Load 10% +	20% +	30% +	40% +	50% +	60% +	70% +	80% +
5	108 Stbd										
6	108 Keel	-3,372	4,139	10,157	16,175	22,198	28,212	34,230	40,257	46,261	52,284
7	98 Stbd										
8	98 East	-5,986	-881	3,209	7,300	11,393	15,480	19,570	23,667	27,747	31,841
9	98 West	-5,986	-881	3,209	7,300	11,393	15,480	19,570	23,667	27,747	31,841
10	92 Stbd										
11	92 Keel	-11,547	-6,726	-2,863	999	4,865	8,725	12,587	16,456	20,309	24,175
12	86 Stbd										
13	86 Keel	-12,144	-10,371								
14	80 Stbd										
15	80 Keel	-13,893	-16,203	-18,054	-19,904	-21,756	-23,606	-25,456	-27,310	-29,156	-31,008
16	72 Stbd										
17	72 Keel	-13,319	-21,029	-27,207	-33,384	-39,567	-45,740	-51,917	-58,104	-64,267	-70,450
18	64 Stbd										
19	64 East	-7,120	-12,735	-17,235	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229	-48,733
20	64 West	-7,120	-12,735	-17,235	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229	-48,733
21	56 Stbd										
22	56 East	-7,690	-13,693	-18,503	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356	-52,170
23	56 West	-7,690	-13,693	-18,503	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356	-52,170
24	48 Stbd										
25	48 Keel	-14,412	-24,202	-32,047	-39,842	-47,742	-55,581	-63,426	-71,282	-79,108	-86,960
26	40 Stbd										
27	40 Keel	-16,760	-21,908	-26,033	-30,158	-34,285	-38,407	-42,532	-46,663	-50,778	-54,906
28	24 Stbd										
29	24 East	-5,885	-2,024								
30	24 West	-5,885	-2,024								
31	16 Stbd										
32	16 East	-4,536	757	4,998	9,239	13,483	17,721	21,962	26,209	30,440	34,685
33	16 West	-4,536	757	4,998	9,239	13,483	17,721	21,962	26,209	30,440	34,685
34	8 Stbd										
35	8 Keel	-2,790	2,783	7,249	11,714	16,183	20,645	25,111	29,583	34,638	38,507
36	8 Surge										

TABLE D.2 - ASEM STATIC TEST 2--CALCULATED LOADS

BAFCO No.	Load Cell	Part A Load Condition, SAG (lb)										
		Zero Stress	Still Water + Zero Stress	Zero Test	Percent Load							
					10%	20%	30%	40%	50%	60%	70%	80%
5	108 Stbd	0	0		3,009	6,018	9,027	12,036	15,045	18,054	21,063	24,073
6	108 Keel	-3,372	4,139	-1,690								
7	98 Stbd	0	0		4,090	8,180	12,271	16,361	20,451	24,542	28,632	32,722
8	98 East	-5,986	-881	-2,993								
9	98 West	-5,986	-881	-2,993								
10	92 Stbd	0	0		1,931	3,863	5,794	7,725	9,656	11,588	13,519	15,450
11	92 Keel	-11,547	-6,726	-5,774								
12	86 Stbd	0	0									
13	86 Keel	-12,144	-10,371									
14	80 Stbd	0	0		- 925	-1,851	-2,776	-3,702	-4,627	-5,552	-6,478	- 7,403
15	80 Keel	-13,893	-16,203	-6,947								
16	72 Stbd	0	0		-3,089	-6,178	-9,266	-12,355	-15,444	-18,533	-21,621	-24,710
17	72 Keel	-13,319	-21,029	-6,660								
18	64 Stbd	0	0		-4,500	-9,000	-13,500	-18,000	-22,499	-26,999	-31,498	-35,998
19	64 East	-7,120	-12,735	-3,560								
20	64 West	-7,120	-12,735	-3,560								
21	56 Stbd	0	0		-4,810	-9,619	-14,429	-19,238	-24,048	-28,857	-33,667	-38,476
22	56 East	-7,690	-13,693	-3,845								
23	56 West	-7,690	-13,693	-3,845								
24	48 Stbd	0	0		-3,922	-7,845	-11,767	-15,690	-19,612	-23,534	-27,457	-31,379
25	48 Keel	-14,412	-24,202	-7,206								
26	40 Stbd	0	0		-2,062	-4,125	-6,187	-8,250	-10,312	-12,374	-14,437	-16,499
27	40 Keel	-16,760	-21,908	-8,380								
28	24 Stbd	0	0									
29	24 East	-5,885	-2,024									
30	24 West	-5,885	-2,024									
31	16 Stbd	0	0		4,241	8,482	12,723	16,964	21,205	25,446	29,687	33,923
32	16 East	-4,536	757	-2,268								
33	16 West	-4,536	757	-2,268								
34	8 Stbd	0	0		2,233	4,466	6,693	8,931	11,164	13,397	15,629	17,862
35	8 Keel	-2,790	2,783	-1,395								
36	8 Surge											

TABLE D.2 (Continued)

BAFCO No.	Load Cell	Part B Load Condition, HOG (lb) Zero Stress	Still Water + Zero Stress	Percent Load 10%	20%	30%	40%	50%	60%	70%	80%
5	108 Stbd	0	0	-3,009	-6,018	-9,027	-12,036	-15,045	-18,054	-21,063	-24,073
6	108 Keel	-3,372	4,139								
7	98 Stbd	0	0	-4,090	-8,180	-12,271	-16,361	-20,451	-24,542	-28,632	-32,722
8	98 East	-5,986	-881								
9	98 West	-5,986	-881								
10	92 Stbd	0	0	-1,931	-3,863	-5,794	-7,725	-9,656	-11,588	-13,519	-15,450
11	92 Keel	-11,547	-6,726								
12	86 Stbd	0	0								
13	86 Keel	-12,144	-10,371								
14	80 Stbd	0	0	925	1,851	2,776	3,702	4,627	5,552	6,478	7,403
15	80 Keel	-13,893	-16,203								
16	72 Stbd	0	0	3,089	6,178	9,266	12,355	15,444	18,533	21,621	24,710
17	72 Keel	-13,319	-21,029								
18	64 Stbd	0	0	4,500	9,000	13,500	18,000	22,499	26,999	31,498	35,998
19	64 East	-7,120	-12,735								
20	64 West	-7,120	-12,735								
21	56 Stbd	0	0	4,810	9,619	14,429	19,238	24,048	28,857	33,667	38,476
22	56 East	-7,690	-13,693								
23	56 West	-7,690	-13,693								
24	48 Stbd	0	0	3,922	7,845	11,767	15,690	19,612	23,534	27,457	31,379
25	48 Keel	-14,412	-24,202								
26	40 Stbd	0	0	2,062	4,125	6,187	8,250	10,312	12,374	14,437	16,499
27	40 Keel	-16,760	-21,908								
28	24 Stbd	0	0								
29	24 East	-5,885	-2,024								
30	24 West	-5,885	-2,024								
31	16 Stbd	0	0	-4,241	-8,482	-12,723	-16,964	-21,205	-25,446	-29,687	-33,923
32	16 East	-4,536	757								
33	16 West	-4,536	757								
34	8 Stbd	0	0	-2,233	-4,466	-6,698	-8,931	-11,164	-13,397	-15,629	-17,862
35	8 Keel	-2,790	2,783								
36	8 Surge										

TABLE D.3 - ASEM STATIC TEST 3--CALCULATED LOADS

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)						
		Zero Stress	Still Water + Zero Stress	80% Max Lateral	Lateral Offset	Percent Load ↑ +10%	Percent Load ↑ +20%	Percent Load ↑ +30%
5	108 Stbd	0	0	-24,073	20,848	19,180	17,177	14,813
6	108 Keel	-3,372	4,139			-1,879	-7,897	-13,920
7	98 Stbd	0	0	-32,722	28,338	26,071	23,348	20,135
8	98 East	-5,986	-881			-4,971	-9,062	-13,155
9	98 West	-5,986	-881			-4,971	-9,062	-13,155
10	92 Stbd	0	0	-15,450	13,380	12,310	11,024	9,507
11	92 Keel	-11,547	-6,726			-10,589	-14,451	-18,317
12	86 Stbd	0	0					
13	86 Keel	-12,144	-10,371					
14	80 Stbd	0	0	7,403	-6,411	-5,898	-5,282	-4,555
15	80 Keel	-13,893	-16,203			-14,352	-12,502	-10,650
16	72 Stbd	0	0	24,710	-21,399	-19,687	-17,631	-15,205
17	72 Keel	-13,319	-21,029			-14,851	-8,674	-2,491
18	64 Stbd	0	0	35,998	-31,175	-28,681	-25,685	-22,151
19	64 East	-7,120	-12,735			-8,235	-3,736	768
20	64 West	-7,120	-12,735			-8,235	-3,736	768
21	56 Stbd	0	0	38,476	-33,321	-30,655	-27,454	-23,675
22	56 East	-7,690	-13,693			-8,883	-4,074	739
23	56 West	-7,690	-13,693			-8,883	-4,074	739
24	48 Stbd	0	0	31,379	-27,175	-25,001	-22,390	-19,308
25	48 Keel	-14,412	-24,202			-16,357	-8,513	-662
26	40 Stbd	0	0	16,499	-14,289	-13,145	-11,772	-10,152
27	40 Keel	-16,760	-21,908			-17,783	-13,659	-9,531
28	24 Stbd	0	0					
29	24 East	-5,885	-2,024					
30	24 West	-5,885	-2,024					
31	16 Stbd	0	0	-33,928	29,382	27,032	24,208	20,877
32	16 East	-4,536	757			-3,484	-7,725	-11,969
33	16 West	-4,536	757			-3,484	-7,725	-11,969
34	8 Stbd	0	0	-17,862	15,469	14,231	12,745	10,991
35	8 Keel	-2,790	2,783			-1,683	-6,148	-10,617
36	8 Surge							

TABLE D.3 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)						
		Percent Load						
		↑+40%	↑+50%	↑+60%	↑+70%	↑+80%	↓+70%	+60%↓
5	108 Stbd	12,037	8,752	4,762	-439	-12,037	-20,625	-22,817
6	108 Keel	-19,934	-25,952	-31,979	-37,983	-44,006	-37,983	-31,979
7	98 Stbd	16,361	11,896	6,473	-597	-16,361	-28,035	-31,015
8	98 East	-17,242	-21,332	-25,429	-29,509	-33,603	-29,509	-25,429
9	98 West	-17,242	-21,332	-25,429	-29,509	-33,603	-29,509	-25,429
10	92 Stbd	7,725	5,617	3,056	-282	-7,725	-13,237	-14,644
11	92 Keel	-22,177	-26,039	-29,908	-33,761	-37,627	-33,761	-29,908
12	86 Stbd							
13	86 Keel							
14	80 Stbd	-3,702	-2,691	-1,464	135	3,702	6,343	7,017
15	80 Keel	-8,801	-6,950	-5,096	-3,250	-1,398	-3,250	-5,096
16	72 Stbd	-12,355	-8,983	-4,888	451	12,355	21,171	23,421
17	72 Keel	3,682	9,859	16,046	22,209	28,392	22,209	16,046
18	64 Stbd	-17,999	-13,087	-7,121	656	17,999	30,842	34,120
19	64 East	5,264	9,764	14,270	18,759	23,263	18,759	14,270
20	64 West	5,264	9,764	14,270	18,759	23,263	18,759	14,270
21	56 Stbd	-19,238	-13,988	-7,611	702	19,238	32,965	36,468
22	56 East	5,546	10,355	15,172	19,970	24,784	19,970	15,172
23	56 West	5,546	10,355	15,172	19,970	24,784	19,970	15,172
24	48 Stbd	-15,690	-11,408	-6,207	572	15,690	26,884	29,742
25	48 Keel	7,177	15,022	22,878	30,704	38,556	30,704	22,878
26	40 Stbd	-8,250	-5,998	-3,264	301	8,250	14,136	15,638
27	40 Keel	-5,409	-1,284	2,847	6,962	11,090	6,962	2,847
28	24 Stbd							
29	24 East							
30	24 West							
31	16 Stbd	16,964	12,334	6,712	-619	-16,964	-29,068	-32,158
32	16 East	-16,207	-20,448	-24,695	-28,926	-33,171	-28,926	-24,695
33	16 West	-16,207	-20,448	-24,695	-28,926	-33,171	-28,926	-24,695
34	8 Stbd	8,931	6,494	3,533	-326	-8,931	-15,304	-16,930
35	8 Keel	-15,079	-19,545	-24,017	-28,472	-32,941	-28,472	-24,017
36	8 Surge							

TABLE D.3 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)					
		Percent Load					
		+50%↓	+40%↓	+30%↓	+20%↓	+10%↓	-10%↓
5	108 Stbd	-23,797	-24,073	-23,840	-23,195	-22,189	-19,180
6	108 Keel	-25,952	-19,934	-13,920	-7,897	-1,879	10,157
7	98 Stbd	-32,347	-32,722	-32,405	-31,528	-30,161	-26,071
8	98 East	-21,332	-17,242	-13,155	-9,067	-4,971	3,209
9	98 West	-21,332	-17,242	-13,155	-9,067	-4,971	3,209
10	92 Stbd	-15,273	-15,450	-15,301	-14,886	-14,241	-12,310
11	92 Keel	-26,039	-22,177	-18,317	-14,451	-10,589	-2,863
12	86 Stbd						
13	86 Keel						
14	80 Stbd	7,318	7,403	7,331	7,133	6,824	5,898
15	80 Keel	-6,950	-8,801	-10,650	-12,502	-14,352	-18,054
16	72 Stbd	24,427	24,710	24,471	23,809	22,776	19,687
17	72 Keel	9,859	3,682	-2,491	-8,674	-14,851	-27,207
18	64 Stbd	35,585	35,998	35,650	34,685	33,181	28,681
19	64 East	9,764	5,264	768	-3,736	-8,235	-17,235
20	64 West	9,764	5,264	768	-3,736	-8,235	-17,235
21	56 Stbd	38,035	38,476	38,104	37,073	35,465	30,655
22	56 East	10,355	5,546	739	-4,074	-8,883	-18,503
23	56 West	10,355	5,546	739	-4,074	-8,883	-18,503
24	48 Stbd	31,019	31,379	31,075	30,234	28,923	25,001
25	48 Keel	15,022	7,177	-662	-8,513	-16,357	-32,047
26	40 Stbd	16,310	16,499	16,339	15,897	15,208	13,145
27	40 Keel	-1,284	-5,409	-9,531	-13,659	-17,783	-26,033
28	24 Stbd						
29	24 East						
30	24 West						
31	16 Stbd	-33,539	-33,928	-33,600	-32,690	-31,273	-27,032
32	16 East	-20,448	-16,207	-11,969	-7,725	-3,484	4,998
33	16 West	-20,448	-16,207	-11,969	-7,725	-3,484	4,998
34	8 Stbd	-17,657	-17,862	-17,689	-17,210	-16,464	-14,231
35	8 Keel	-19,545	-15,079	-10,617	-6,148	-1,683	7,249
36	8 Surge						

TABLE D.3 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degrees Lag (1b)						
		Percent Load						
		-20%↓	-30%↓	-40%↓	-50%↓	-60%↓	-70%↓	-80%↓
5	108 Stbd	-17,177	-14,813	-12,037	-8,752	-4,762	439	12,037
6	108 Keel	16,175	22,198	28,212	34,230	40,257	46,261	52,284
7	98 Stbd	-23,348	-20,135	-16,361	-11,896	-6,473	597	16,361
8	98 East	7,300	11,393	15,480	19,570	23,667	27,747	31,841
9	98 West	7,300	11,393	15,480	19,570	23,667	27,747	31,841
10	92 Stbd	-11,024	-9,507	-7,725	-5,617	-3,056	282	7,725
11	92 Keel	999	4,865	8,725	12,587	16,456	20,309	24,175
12	86 Stbd							
13	86 Keel							
14	80 Stbd	5,282	4,555	3,702	2,691	1,464	-135	-3,702
15	80 Keel	-19,904	-21,756	-23,606	-25,456	-27,310	-29,156	-31,008
16	72 Stbd	17,631	15,205	12,355	8,983	4,888	-451	-12,355
17	72 Keel	-33,384	-39,567	-45,740	-51,917	-58,104	-64,267	-70,450
18	64 Stbd	25,685	22,151	17,999	13,087	7,121	-656	-17,999
19	64 East	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229	-48,733
20	64 West	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229	-48,733
21	56 Stbd	27,454	23,675	19,238	13,988	7,611	-702	-19,238
22	56 East	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356	-52,170
23	56 West	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356	-52,170
24	48 Stbd	22,390	19,308	15,690	11,408	6,207	-572	-15,690
25	48 Keel	-39,892	-47,742	-55,581	-63,426	-71,282	-79,108	-86,960
26	40 Stbd	11,772	10,152	8,250	5,998	3,264	-301	-8,250
27	40 Keel	-30,158	-34,285	-38,407	-42,532	-46,663	-50,778	-54,906
28	24 Stbd							
29	24 East							
30	24 West							
31	16 Stbd	-24,208	-20,877	-16,964	-12,334	-6,712	619	16,964
32	16 East	9,239	13,483	17,721	21,962	26,209	30,440	34,685
33	16 West	9,239	13,483	17,721	21,962	26,209	30,440	34,685
34	8 Stbd	-12,745	-10,991	-8,931	-6,494	-3,533	326	8,931
35	8 Keel	11,714	16,183	20,645	25,111	29,583	34,038	38,507
36	8 Surge							

TABLE D.3 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)						
		Percent Load						
		-70% ↑	-60% ↑	-50% ↑	-40% ↑	-30% ↑	-20% ↑	-10% ↑
5	108 Stbd	20,625	22,817	23,797	24,073	23,840	23,195	22,189
6	108 Keel	46,261	40,257	34,230	28,212	22,198	16,175	10,157
7	98 Stbd	28,035	31,015	32,347	32,722	32,405	31,528	30,161
8	98 East	27,747	23,667	19,570	15,480	11,393	7,300	3,209
9	98 West	27,474	23,667	19,570	15,480	11,393	7,300	3,209
10	92 Stbd	13,237	14,644	15,273	15,450	15,301	14,886	14,241
11	92 Keel	20,309	16,456	12,587	8,725	4,865	999	-2,863
12	86 Stbd							
13	86 Keel							
14	80 Stbd	-6,343	-7,017	-7,318	-7,403	-7,331	-7,133	-6,824
15	80 Keel	-29,156	-27,310	-25,456	-23,606	-21,756	-19,904	-18,054
16	72 Stbd	-21,171	-23,421	-24,427	-24,710	-24,471	-23,809	-22,776
17	72 Keel	-64,267	-58,104	-51,917	-45,740	-39,567	-33,384	-27,207
18	64 Stbd	-30,842	-34,120	-35,585	-35,998	-35,650	-34,685	-33,181
19	64 East	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235
20	64 West	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235
21	56 Stbd	-32,965	-36,468	-38,035	-38,476	-38,104	-37,073	-35,465
22	56 East	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503
23	56 West	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503
24	48 Stbd	-26,884	-29,742	-31,019	-31,379	-31,075	-30,234	-28,923
25	48 Keel	-79,108	-71,282	-63,426	-55,581	-47,742	-39,892	-32,047
26	40 Stbd	-14,136	-15,638	-16,310	-16,499	-16,339	-15,897	-15,208
27	40 Keel	-50,778	-46,663	-42,532	-38,407	-34,285	-30,158	-26,033
28	24 Stbd							
29	24 East							
30	24 West							
31	16 Stbd	29,068	32,158	33,539	33,928	33,600	32,690	31,273
32	16 East	30,440	26,209	21,962	17,721	13,483	9,239	4,998
33	16 West	30,440	26,209	21,962	17,721	13,483	9,239	4,998
34	8 Stbd	15,304	16,930	17,689	17,862	17,696	17,210	16,464
35	8 Keel	34,038	29,583	25,111	20,645	16,183	11,714	7,249
36	8 Surge							

TABLE D.4 - ASEM STATIC TEST 4--CALCULATED LOADS

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb) Zero Stress	Still Water+Zero Stress	80% Max Lateral	Lateral Offset	Percent Load ↑ +10%	↑+20%	↑+30%	↑+40%	↑+50%
5	108 Stbd	0	0	-24,073	-20,848	-19,180	-17,777	-14,813	-12,037	-8,752
6	108 Keel	-3,372	4,139			-1,879	-7,897	-13,920	-19,934	-25,952
7	98 Stbd	0	0	-32,722	-28,338	-26,071	-23,348	-20,135	-16,361	-11,896
8	98 East	-5,986	-881			-4,971	-9,062	-13,155	-17,242	-21,332
9	98 West	-5,986	-881			-4,971	-9,062	-13,155	-17,242	-21,332
10	92 Stbd	0	0	-15,450	-13,380	-12,310	-11,024	-9,507	-7,725	-5,617
11	92 Keel	-11,547	-6,726			-10,589	-14,451	-18,317	-22,177	-26,039
12	86 Stbd	0	0							
13	86 Keel	-12,144	-10,371							
14	80 Stbd	0	0	7,403	6,411	5,898	5,282	4,555	3,702	2,691
15	80 Keel	-13,893	-16,203			-14,352	-12,502	-10,650	-8,801	-6,950
16	72 Stbd	0	0	24,710	21,399	19,687	17,631	15,205	12,355	8,983
17	72 Keel	-13,319	-21,029			-14,851	-8,674	-2,491	3,682	9,859
18	64 Stbd	0	0	35,998	31,175	28,681	25,685	22,151	17,999	13,087
19	64 East	-7,120	-12,735			-8,235	-3,736	768	5,264	9,764
20	64 West	-7,120	-12,735			-8,235	-3,736	768	5,264	9,764
21	56 Stbd	0	0	38,476	33,321	30,655	27,454	23,675	19,238	13,988
22	56 East	-7,690	-13,693			-8,883	-4,074	739	5,546	10,355
23	56 West	-7,690	-13,693			-8,883	-4,074	739	5,546	10,355
24	48 Stbd	0	0	31,379	27,175	25,001	22,390	19,308	15,690	11,406
25	48 Keel	-14,412	-24,202			-16,357	-8,513	-662	7,177	15,022
26	40 Stbd	0	0	16,499	14,289	13,145	11,772	10,152	8,250	5,998
27	40 Keel	-16,760	-21,908			-17,783	-13,659	-9,531	-5,409	-1,284
28	24 Stbd	0	0							
29	24 East	-5,885	-2,024							
30	24 West	-5,885	-2,024							
31	16 Stbd	0	0	-33,928	-29,382	-27,032	-24,208	-20,877	-16,964	-12,334
32	16 East	-4,536	757			-3,484	-7,725	-11,969	-16,207	-20,448
33	16 West	-4,536	757			-3,484	-7,725	-11,969	-16,207	-20,448
34	8 Stbd	0	0	-17,862	-15,469	-14,231	-12,745	-10,991	-8,931	-6,494
35	8 Keel	-2,790	2,783			-1,683	-6,148	-10,617	-15,079	-19,545
36	8 Surge									

TABLE D.4 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (1b)								
		Percent Load								
		↑+60%	↑ +70%	↑+80%	+70% ↓	+60% ↓	+50% ↓	+40% ↓	+30% ↓	+20% ↓
5	108 Stbd	-4,762	439	12,037	20,625	22,817	23,797	24,073	23,840	23,195
6	108 Keel	-31,979	-37,983	-44,006	-37,983	-31,979	-25,952	-19,934	-13,920	-7,897
7	98 Stbd	-6,473	597	16,361	28,035	31,015	32,347	32,722	32,405	31,528
8	98 East	-25,429	-29,509	-33,603	-29,509	-25,429	-21,332	-17,242	-13,155	-9,062
9	98 West	-25,429	-29,509	-33,603	-29,509	-25,429	-21,332	-17,242	-13,155	-9,062
10	92 Stbd	-3,056	282	7,725	13,327	14,644	15,273	15,450	15,301	14,886
11	92 Keel	-29,908	-33,761	-37,627	-33,761	-29,908	-26,039	-22,177	-18,317	-14,451
12	86 Stbd									
13	86 Keel									
14	80 Stbd	1,464	-135	-3,702	-6,343	-7,017	-7,318	-7,403	-7,331	-7,133
15	80 Keel	-5,096	-3,250	-1,398	-3,250	-5,096	-6,950	-8,801	-10,650	-12,502
16	72 Stbd	4,888	-451	-12,355	-21,171	-23,421	-24,427	-24,710	-24,471	-23,809
17	72 Keel	16,046	22,209	28,392	22,209	16,046	9,859	3,682	-2,491	-8,674
18	64 Stbd	7,121	-656	-17,999	-30,841	-34,120	-35,585	-35,998	-35,650	-34,685
19	64 East	14,270	18,759	23,263	18,759	14,270	9,764	5,264	768	-3,736
20	64 West	14,270	18,759	23,263	18,759	14,270	9,764	5,264	768	-3,736
21	56 Stbd	7,611	-701	-19,238	-32,965	-36,468	-38,035	-38,476	-38,104	-37,073
22	56 East	15,172	19,970	24,784	19,970	15,172	10,355	5,546	739	-4,074
23	56 West	15,172	19,970	24,784	19,970	15,172	10,355	5,546	739	-4,074
24	48 Stbd	6,207	-572	-15,600	-26,884	-29,742	-31,019	-31,379	-50,882	-49,505
25	48 Keel	22,878	30,704	38,556	30,704	22,878	15,022	7,177	-662	-8,513
26	40 Stbd	3,264	-301	-8,250	-14,136	-15,638	-16,310	-16,499	-16,339	-15,897
27	40 Keel	2,847	6,962	11,090	6,962	2,847	-1,284	-5,409	-9,531	-13,659
28	24 Stbd									
29	24 East									
30	24 West									
31	16 Stbd	-6,712	619	16,964	29,068	32,158	33,539	33,928	33,600	32,690
32	16 East	-24,695	-28,926	-33,171	-28,926	-24,695	-20,448	-16,207	-11,969	-7,725
33	16 West	-24,695	-28,926	-33,171	-28,926	-24,695	-20,448	-16,207	-11,969	-7,725
34	8 Stbd	-3,533	326	8,931	15,304	16,930	17,657	17,862	17,689	17,210
35	8 Keel	-24,017	-28,472	-32,941	-28,472	-24,017	-19,545	-15,079	-10,617	-6,148
36	8 Surge									

TABLE D.4 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)							
		Percent Load							
		+10% ↓	-10% ↓	-20% ↓	-30% ↓	-40% ↓	-50% ↓	-60% ↓	-70% ↓
5	108 Stbd	22,189	19,180	17,177	14,813	12,037	8,752	4,762	-439
6	108 Keel	-1,879	10,157	16,175	22,198	28,212	34,230	40,257	46,261
7	98 Stbd	30,161	26,071	23,348	20,135	16,361	11,896	6,473	-597
8	98 East	-4,971	3,209	7,300	11,393	15,480	19,570	23,667	27,747
9	98 West	-4,971	3,209	7,300	11,393	15,480	19,570	23,667	27,747
10	92 Stbd	14,241	12,310	11,024	9,507	7,725	5,617	3,056	-282
11	92 Keel	-10,589	-2,863	999	4,865	8,725	12,587	16,456	20,309
12	86 Stbd								
13	86 Keel								
14	80 Stbd	-6,824	-5,898	-5,282	-4,555	-3,702	-2,691	-1,464	135
15	80 Keel	-14,352	-18,054	-19,904	-21,756	-23,606	-25,456	-27,310	-29,156
16	72 Stbd	-22,776	-19,687	-17,631	-15,205	-12,355	-8,983	-4,888	451
17	72 Keel	-14,851	-27,207	-33,384	-39,567	-45,740	-51,917	-58,014	-64,267
18	64 Stbd	-33,181	-28,681	-25,685	-22,151	-17,999	-13,087	-7,121	656
19	64 East	-8,235	-17,235	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229
20	64 West	-8,235	-17,235	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229
21	56 Stbd	-35,465	-30,655	-27,454	-23,675	-19,238	-13,988	-7,611	701
22	56 East	-8,883	-18,503	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356
23	56 West	-8,883	-18,503	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356
24	48 Stbd	-47,358	-25,001	-22,390	-19,308	-15,690	-11,406	-6,207	572
25	48 Keel	-16,357	-32,047	-39,892	-47,742	-55,581	-63,426	-71,282	-79,108
26	40 Stbd	-15,208	-13,145	-11,772	-10,152	-8,250	-5,998	-3,264	301
27	40 Keel	-17,783	-26,033	-30,158	-34,285	-38,407	-42,532	-46,663	-50,778
28	24 Stbd								
29	24 East								
30	24 West								
31	16 Stbd	31,273	27,032	24,208	20,877	16,964	12,334	6,712	-619
32	16 East	-3,484	4,998	9,239	13,483	17,721	21,962	26,209	30,440
33	16 West	-3,484	4,998	9,239	13,483	17,721	21,962	26,209	30,440
34	8 Stbd	16,464	14,231	12,745	10,991	8,931	6,494	3,533	-326
35	8 Keel	-1,683	7,249	11,714	16,183	20,645	25,111	29,583	34,038
36	8 Surge								

TABLE D.4 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)							
		Percent Load							
		-80% ↓	-70% ↑	-60% ↑	-50% ↑	-40% ↑	-30% ↑	-20% ↑	-10% ↑
5	108 Stbd	-12,037	-20,625	-22,817	-23,797	-24,073	-23,840	-23,195	-22,189
6	108 Keel	52,284	46,261	40,257	34,230	28,212	22,198	16,175	10,157
7	98 Stbd	-16,361	-28,035	-31,015	-32,347	-32,722	-32,405	-31,528	-30,161
8	98 East	31,841	27,747	23,667	19,570	15,480	11,393	7,300	3,209
9	98 West	31,841	27,747	23,667	19,570	15,480	11,393	7,300	3,209
10	92 Stbd	-7,725	-13,237	-14,644	-15,273	-15,450	-15,301	-14,886	-14,241
11	92 Keel	24,175	20,309	16,456	12,587	8,725	4,865	999	-2,863
12	86 Stbd								
13	86 Keel								
14	80 Stbd	3,702	6,343	7,017	7,318	7,403	7,331	7,133	6,824
15	80 Keel	-31,008	-29,156	-27,310	-25,456	-23,606	-21,756	-19,904	-18,054
16	72 Stbd	12,355	21,171	23,421	24,427	24,710	24,471	23,809	22,776
17	72 Keel	-70,450	-64,267	-58,104	-51,917	-45,740	-39,567	-33,384	-27,207
18	64 Stbd	17,999	30,841	34,120	35,585	35,998	35,650	34,685	33,181
19	64 East	-48,733	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235
20	64 West	-48,733	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235
21	56 Stbd	19,238	32,965	36,468	38,035	38,476	38,104	37,073	35,465
22	56 East	-52,170	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503
23	56 West	-52,170	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503
24	48 Stbd	15,690	26,884	29,742	31,019	31,379	50,882	49,505	47,358
25	48 Keel	-86,960	-79,108	-71,282	-63,426	-55,581	-47,742	-39,892	-32,047
26	40 Stbd	8,250	14,136	15,638	16,310	16,499	16,339	15,897	15,208
27	40 Keel	-54,906	-50,778	-46,663	-42,532	-38,407	-34,285	-30,158	-26,033
28	24 Stbd								
29	24 East								
30	24 West								
31	16 Stbd	-16,964	-29,068	-32,158	-33,539	-33,928	-33,600	-32,690	-31,273
32	16 East	34,685	30,440	26,209	21,962	17,721	13,483	9,239	4,998
33	16 West	34,685	30,440	26,209	21,962	17,721	13,483	9,239	4,998
34	8 Stbd	-6,494	-15,304	-16,930	-17,657	-17,682	-17,689	-17,210	-16,464
35	8 Keel	38,507	34,038	29,583	25,111	20,645	16,183	11,714	7,249
36	8 Surge								

TABLE D.5 - ASEM STATIC TEST 1--MEASURED LOADS

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)							
		Unlock	Zero	Zero Stress	Still Water+Zero Stress	Percent Load +10% ↑	+20% ↑	+30% ↑	+40% ↑
5	108 Stbd	-1,050	-1,060	0	0	0	0	0	0
6	108 Keel	170	-3,230	-3,332	4,230	-1,840	-7,910	-13,960	-20,050
7	98 Stbd	-70	-60	-60	-80	-80	-80	-80	-70
8	98 East	40	-6,060	-6,050	-870	-5,020	-9,180	-13,330	-17,500
9	98 West	130	-6,020	-6,000	-840	-4,980	-9,120	-13,240	-17,370
10	92 Stbd	-280	-150	30	70	60	90	100	100
11	92 Keel	-350	-11,480	-11,510	-6,830	-10,590	-14,320	-18,060	-21,820
12	86 Stbd	2,350	2,380	0	-20	140	-100	0	-220
13	86 Keel	-41,780	-12,980	-14,390	-12,500	-13,810	-15,500	-17,220	-18,800
14	80 Stbd	0	0	0	0	0	0	0	0
15	80 Keel	-580	-4,550	-13,890	-16,230	-14,360	-12,460	-10,570	-8,720
16	72 Stbd	-1,150	-1,160	0	0	10	20	10	0
17	72 Keel	-1,040	-14,060	-13,330	-20,830	-15,030	-8,840	-2,830	3,250
18	64 Stbd	0	0	0	0	0	0	0	0
19	64 East	0	-7,050	-7,050	-12,630	-8,180	-3,700	750	5,190
20	64 West	-310	-7,500	-7,090	-12,740	-8,230	-3,750	800	5,220
21	56 Stbd	-600	40	40	50	-580	50	-580	40
22	56 East	220	-7,700	-7,720	-13,840	-8,970	-4,060	930	5,780
23	56 West	270	-7,600	-7,600	-13,700	-8,800	-3,950	1,020	5,930
24	48 Stbd	0	0	0	0	0	0	0	0
25	48 Keel	280	-14,320	-14,340	-24,220	-16,290	-8,430	-510	7,460
26	40 Stbd	30	40	50	50	50	50	50	50
27	40 Keel	850	-16,600	-16,580	-21,900	-17,650	-13,400	-9,150	-4,880
28	24 Stbd	1,230	1,800	580	540	980	630	900	560
29	24 East	-11,130	-2,030	-3,650	370	-3,130	-6,200	-9,350	-12,600
30	24 West	-15,070	-8,530	-13,250	-9,120	-12,680	-15,620	-18,100	-21,080
31	16 Stbd	0	-20	0	0	0	0	0	0
32	16 East	-2,180	-6,170	-4,550	100	-2,960	-7,230	-11,710	-15,700
33	16 West	190	-4,360	-4,520	820	-3,450	-7,800	-12,190	-16,560
34	8 Stbd	-1,070	-1,060	-10	-10	0	0	0	0
35	8 Keel	-3,000	-5,900	-2,880	3,030	-1,800	-6,330	-11,000	-15,690
36	8 Surge	-1,480	-980	-1,030	-790	-940	-1,180	-1,500	-1,750

TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)							
		Percent Load							
		+50% ↑	+60% ↑	+70% ↑	+80% ↑	+70% ↓	+60% ↓	+50% ↓	+40% ↓
5	108 Stbd	0	0	0	0	0	0	0	0
6	108 Keel	-26,100	-32,180	-38,240	-44,300	-38,240	-32,160	-26,100	-20,040
7	98 Stbd	-80	-80	-80	-80	-70	-70	-80	-70
8	98 East	-21,650	-25,820	-29,980	-34,150	-30,000	-25,830	-21,680	-17,510
9	98 West	-21,530	-25,640	-29,770	-33,900	-29,770	-25,620	-21,480	-17,330
10	92 Stbd	90	100	100	90	90	90	100	90
11	92 Keel	-25,900	-29,640	-33,380	-37,120	-33,380	-29,630	-25,870	-22,130
12	86 Stbd	-40	-330	-130	-160	-160	-420	-120	-350
13	86 Keel	-20,030	-21,650	-22,760	-24,580	-23,040	-21,530	-20,150	-18,720
14	80 Stbd	0	0	0	0	0	0	0	0
15	80 Keel	-6,840	-4,990	-3,090	-1,240	-3,120	-5,000	-6,870	-8,730
16	72 Stbd	10	0	0	0	0	0	0	0
17	72 Keel	9,680	15,660	21,670	28,200	22,220	16,210	10,220	4,210
18	64 Stbd	0	0	0	0	0	0	0	0
19	64 East	9,660	14,120	18,590	23,050	18,600	14,120	9,660	5,180
20	64 West	9,730	14,220	18,630	23,060	18,310	13,740	9,370	4,940
21	56 Stbd	-560	50	-590	-580	-580	50	580	50
22	56 East	10,680	15,550	20,420	25,300	20,430	15,540	10,640	5,760
23	56 West	10,800	15,660	19,890	24,620	19,920	15,180	10,460	5,730
24	48 Stbd	0	0	0	0	0	0	0	0
25	48 Keel	15,350	23,240	31,130	39,030	31,150	23,240	15,340	7,450
26	40 Stbd	50	50	50	50	50	50	50	50
27	40 Keel	-1,020	3,480	7,880	12,290	7,900	3,500	-1,020	-5,430
28	24 Stbd	840	410	610	550	640	410	770	520
29	24 East	-16,000	-19,380	-23,190	-26,720	-23,320	-19,750	-16,350	-12,810
30	24 West	-23,870	-26,890	-29,820	-32,730	-29,620	-26,730	-23,730	-20,990
31	16 Stbd	0	0	0	0	-10	-10	-10	-10
32	16 East	-20,330	-24,450	-28,590	-32,700	-28,570	-24,430	-20,300	-16,180
33	16 West	-20,870	-25,260	-28,950	-33,200	-28,940	-24,690	-20,460	-16,190
34	8 Stbd	0	0	0	0	0	0	0	0
35	8 Keel	-19,570	-24,080	-28,590	-33,090	-28,590	-24,100	-19,610	-15,110
36	8 Surge	-1,990	-2,250	-2,510	-2,760	-2,820	-2,770	-2,600	-2,190

TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)							
		Percent Load							
		+30%↓	+20%↓	+10%↓	Still Water	-10%↓	-20%↓	-30%↓	-40%↓
5	108 Stbd	0	0	0	0	0	0	0	0
6	108 Keel	-13,990	-7,930	-1,890	4,160	10,230	16,260	22,340	28,400
7	98 Stbd	-80	-80	-80	-80	-80	-80	-60	-70
8	98 East	-13,350	-9,190	-5,050	-900	3,260	7,400	11,560	15,710
9	98 West	-13,210	-9,080	-4,970	-830	3,320	7,460	11,620	15,750
10	92 Stbd	100	100	100	90	100	100	90	100
11	92 Keel	-18,390	-14,650	-10,920	-7,190	-3,450	290	4,030	8,640
12	86 Stbd	0	-150	80	-180	40	60	-50	420
13	86 Keel	-17,150	-15,400	-13,930	-12,210	-10,660	-9,350	-7,500	-7,150
14	80 Stbd	0	0	0	0	0	0	0	0
15	80 Keel	-10,600	-12,460	-14,360	-16,270	-18,160	-20,070	-21,980	-23,800
16	72 Stbd	0	0	0	0	0	0	0	0
17	72 Keel	-1,890	-7,910	-13,920	-19,920	-25,940	-33,250	-39,230	-45,250
18	64 Stbd	0	0	0	0	0	0	0	0
19	64 East	730	-3,710	-8,160	-12,640	-17,100	-21,580	-26,220	-30,670
20	64 West	520	-4,320	-8,760	-13,650	-18,230	-21,590	-25,810	-30,030
21	56 Stbd	-580	50	-580	50	-570	-570	50	-570
22	56 East	870	-4,130	-9,010	-13,910	-18,830	-23,720	-28,620	-33,530
23	56 West	980	-3,820	-8,520	-13,260	-17,960	-22,710	-28,160	-33,060
24	48 Stbd	0	0	0	0	0	0	0	0
25	48 Keel	-530	-8,420	-16,360	-24,250	-32,190	-40,100	-48,000	-55,890
26	40 Stbd	50	50	40	40	40	30	50	40
27	40 Keel	-9,840	-14,260	-18,650	-23,020	-27,460	-30,280	-34,460	-38,660
28	24 Stbd	860	570	910	550	900	930	720	1,350
29	24 East	-9,390	-5,790	-2,480	760	4,080	6,970	9,990	13,720
30	24 West	-18,060	-15,210	-12,220	-8,900	-5,820	-3,670	-1,260	82
31	16 Stbd	0	0	0	0	0	-10	0	-10
32	16 East	-12,080	-7,970	-3,850	290	4,400	8,540	13,650	18,080
33	16 West	-11,960	-7,700	-3,430	730	4,990	9,240	13,570	17,730
34	8 Stbd	0	0	0	0	0	0	0	0
35	8 Keel	-10,610	-6,100	-1,600	2,890	7,390	11,890	16,390	20,900
36	8 Surge	-1,760	-1,360	-1,030	-780	-540	-370	-130	80

TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb) Percent Load -50% ↓	-60% ↓	-70% ↓	-80% ↓	-70% ↑	-60% ↑	-50% ↑	-40% ↑
5	108 Stbd	0	0	0	0	0	0	0	0
6	108 Keel	34,460	40,500	46,550	52,580	46,510	40,450	34,380	28,310
7	98 Stbd	-60	-60	-60	-60	-70	-70	-70	-70
8	98 East	19,860	24,020	28,190	32,320	28,170	24,020	19,860	15,700
9	98 West	19,900	24,050	28,200	32,330	28,190	24,040	19,890	15,730
10	92 Stbd	130	100	110	100	100	100	100	90
11	92 Keel	12,380	16,120	19,880	23,580	19,850	16,120	12,360	8,630
12	86 Stbd	230	620	400	760	350	560	180	340
13	86 Keel	-6,150	-4,250	-2,300	-960	-2,530	-3,840	-5,490	-6,510
14	80 Stbd	0	0	0	0	0	0	0	0
15	80 Keel	-25,740	-27,630	-29,510	-31,400	-29,530	-27,630	-25,760	-23,890
16	72 Stbd	0	0	0	0	0	0	0	0
17	72 Keel	-51,270	-57,278	-64,100	-70,120	-64,130	-58,120	-52,100	-46,090
18	64 Stbd	0	0	0	0	0	0	0	0
19	64 East	-35,160	-39,660	-44,100	-48,580	-44,130	-39,640	-35,190	-30,690
20	64 West	-34,320	-39,580	-43,920	-48,290	-43,620	-39,290	-34,960	-30,620
21	56 Stbd	50	-570	50	-580	40	-580	40	-570
22	56 East	-37,800	-42,590	-47,380	-52,220	-47,410	-42,600	-37,820	-32,990
23	56 West	-37,920	-42,780	-47,630	-52,510	-47,670	-42,790	-37,950	-33,040
24	48 Stbd	0	0	0	0	0	0	0	0
25	48 Keel	-63,790	-71,690	-79,600	-87,510	-79,620	-71,700	-63,800	-55,870
26	40 Stbd	40	40	40	30	30	30	30	30
27	40 Keel	-42,840	-47,030	-51,200	-55,400	-51,240	-47,040	-42,860	-38,650
28	24 Stbd	1,180	1,580	1,400	1,780	1,340	1,460	1,040	1,180
29	24 East	16,860	20,500	24,000	27,170	23,880	20,400	17,120	13,650
30	24 West	3,180	6,380	8,970	11,720	8,970	6,540	3,890	1,470
31	16 Stbd	-20	-10	0	20	-30	-20	-30	-20
32	16 East	22,510	26,320	30,670	34,990	30,640	26,300	21,960	17,630
33	16 West	21,980	26,240	30,490	34,730	30,460	26,210	21,950	17,700
34	8 Stbd	0	0	0	0	0	0	0	0
35	8 Keel	25,400	29,890	34,400	38,890	34,390	29,890	25,400	20,890
36	8 Surge	300	580	830	1,020	840	560	280	0

TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb): Percent Load −30%↑	−20%↑	−10%↑	Still Water + Zero Stress	Zero	Unlock
5	108 Stbd	0	0	0	0	0	0
6	108 Keel	22,230	16,160	10,110	4,070	-3,520	-130
7	98 Stbd	-70	-70	-70	-70	-70	-70
8	98 East	11,550	7,390	3,240	-910	-6,100	-30
9	98 West	11,590	7,460	3,320	-820	-6,000	50
10	92 Stbd	100	90	100	90	100	100
11	92 Keel	4,880	1,140	-2,610	-6,340	-11,040	160
12	86 Stbd	-130	0	0	-220	-90	570
13	86 Keel	-7,830	-9,230	-10,630	-11,970	-13,580	-45,480
14	80 Stbd	0	0	0	0	0	0
15	80 Keel	-22,000	-20,100	-18,220	-16,330	-14,020	-20
16	72 Stbd	0	0	0	0	0	0
17	72 Keel	-40,100	-34,090	-28,070	-22,060	-14,560	-1,530
18	64 Stbd	0	0	0	0	0	0
19	64 East	-26,240	-21,620	-17,150	-12,670	-7,110	-50
20	64 West	-26,260	-21,930	-17,580	-13,200	-7,750	-770
21	56 Stbd	40	-570	-570	40	40	-580
22	56 East	-28,170	-23,360	-18,560	-13,750	-7,760	30
23	56 West	-28,240	-23,350	-18,490	-13,640	-7,600	280
24	48 Stbd	0	0	0	0	0	0
25	48 Keel	-48,010	-40,090	-32,160	-24,220	-14,360	240
26	40 Stbd	30	20	30	30	30	30
27	40 Keel	-34,490	-30,300	-26,120	-21,920	-16,730	370
28	24 Stbd	510	770	800	540	690	840
29	24 East	9,880	6,530	3,500	640	-3,020	-13,630
30	24 West	-590	-3,220	-6,090	-9,120	-12,860	-18,760
31	16 Stbd	-30	-30	-20	-20	-30	-30
32	16 East	13,300	8,970	4,620	300	-5,130	-480
33	16 West	13,450	9,200	4,930	680	-4,540	-90
34	8 Stbd	0	0	0	0	0	0
35	8 Keel	16,370	11,880	7,370	2,870	-2,750	50
36	8 Surge	-290	-520	-710	-910	1,160	-2,680

TABLE D.6 - ASEM STATIC TEST 2--MEASURED LOADS

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb) Unlock	Zero	Zero Stress	Still Water+Zero Stress	Percent Load +10% ↑	+20% ↑	+30% ↑	+40% ↑
5	108 Stbd	10	-10	-10	-20	2,930	5,930	-8,950	11,950
6	108 Keel	140	-3,200	-3,230	4,210	4,210	4,200	4,200	4,200
7	98 Stbd	490	0	30	40	4,120	8,200	12,310	16,390
8	98 East	-1,190	-7,120	-5,960	-870	-870	-870	-860	-850
9	98 West	290	-5,860	-5,870	-780	-760	-760	-780	-760
10	92 Stbd	110	0	-10	-20	1,850	3,790	5,730	7,660
11	92 Keel	1,050	-9,900	-11,520	-6,960	-6,730	-6,730	-6,730	-6,730
12	86 Stbd	640	460	-650	-770	-180	490	1,240	2,000
13	86 Keel	-50,790	-14,700	-14,620	-12,460	-12,600	-12,460	-12,350	-12,190
14	80 Stbd	0	0	-0	-0	-930	-1,860	-2,790	-3,700
15	80 Keel	-240	-13,930	-13,930	-16,260	-16,220	-16,200	-16,190	-16,200
16	72 Stbd	0	-50	-0	0	-2,970	-6,040	-9,150	-12,200
17	72 Keel	-250	-3,558	-13,330	-20,970	-20,980	-20,990	-21,000	-21,000
18	64 Stbd	90	0	-0	0	-4,450	-8,940	-13,460	-17,950
19	64 Fast	40	-7,080	-7,090	-12,700	-12,730	-12,700	-12,730	-12,720
20	64 West	120	-1,120	-7,140	-12,810	-12,830	-12,830	-12,840	-12,840
21	56 Stbd	0	-20	-10	-0	-4,760	-9,580	-14,390	-19,230
22	56 East	130	-7,830	-7,690	-13,690	-13,690	-13,690	-13,700	-13,700
23	56 West	-300	-7,960	-7,730	-13,680	-13,670	-13,660	-13,660	-13,660
24	48 Stbd	0	-40	-30	-0	-3,920	-7,650	-11,800	-15,710
25	48 Keel	40	-14,430	-14,450	-24,260	-24,240	-24,230	-24,240	-24,220
26	40 Stbd	70	0	-0	-0	-2,100	-4,160	-6,220	-8,300
27	40 Keel	10	-16,830	-16,830	-22,000	-22,000	-22,000	-22,010	-21,980
28	24 Stbd	-1,180	-360	110	160	3,200	6,310	9,370	12,460
29	24 East	-16,230	-3,840	-4,000	-50	300	820	1,350	1,850
30	24 West	-20,830	-12,580	-12,770	-9,120	-9,450	-9,960	-10,470	-10,970
31	16 Stbd	750	640	10	0	4,230	8,490	12,750	17,000
32	16 East	160	-4,440	-4,450	820	810	820	820	830
33	16 West	-260	-4,700	-4,560	660	660	660	660	660
34	8 Stbd	100	0	0	0	2,240	4,470	6,700	8,950
35	8 Keel	160	-2,590	-2,810	2,680	2,680	2,690	2,690	2,690
36	8 Surge	-2,560	-1,100	-1,110	-810	-760	-760	-760	-760

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)							
		Percent Load							
		+50% ↑	+60% ↑	+70% ↑	+80% ↑	+70% ↓	+60% ↓	+50% ↓	+40% ↓
5	108 Stbd	14,970	17,960	20,980	23,980	21,000	17,980	14,990	11,960
6	108 Keel	4,180	4,170	4,170	4,160	4,180	4,160	4,180	4,170
7	98 Stbd	20,490	24,580	28,680	32,770	28,690	24,600	20,500	16,390
8	98 East	-860	-870	-880	-880	-870	-870	-870	-870
9	98 West	-760	-760	-760	-760	-760	-760	-770	-770
10	92 Stbd	9,590	11,520	13,460	15,400	13,470	11,530	9,600	7,670
11	92 Keel	-6,730	-6,730	-6,720	-6,730	-6,730	-6,710	-6,720	-6,720
12	86 Stbd	2,710	3,480	4,190	4,970	4,470	3,910	3,260	2,660
13	86 Keel	-12,070	-11,960	-11,850	-11,750	-11,840	-11,920	-12,130	-12,270
14	80 Stbd	-4,610	-5,560	-6,500	-7,400	-6,490	-5,560	-4,630	-3,710
15	80 Keel	-16,180	-16,170	-16,150	-16,110	-16,100	-16,170	-16,210	-16,220
16	72 Stbd	-15,320	-18,360	-21,470	-24,700	-21,620	-18,530	-15,460	-12,370
17	72 Keel	-21,000	-21,000	-21,000	-21,010	-21,010	-21,000	-21,000	-21,000
18	64 Stbd	-22,470	-26,980	-31,480	-35,980	-31,470	-26,980	-22,460	-17,940
19	64 East	-12,710	-12,710	-12,700	-12,690	-12,700	-12,710	-12,700	-12,700
20	64 West	-12,830	-12,830	-12,840	-12,840	-12,810	-12,790	-12,760	-12,760
21	56 Stbd	-24,020	-28,870	-33,680	-38,500	-33,660	-28,850	-24,000	-19,200
22	56 East	-13,690	-13,690	-13,690	-13,700	-13,700	-13,700	-13,710	-13,710
23	56 West	-13,660	-13,660	-13,660	-13,670	-13,660	-13,690	-13,690	-13,690
24	48 Stbd	-19,660	-23,610	-27,560	-31,490	-27,570	-23,630	-19,700	-15,700
25	48 Keel	-24,230	-24,220	-24,240	-24,230	-24,200	-24,220	-24,210	-24,220
26	40 Stbd	-10,330	-12,390	-14,460	-16,500	-14,410	-12,390	-10,340	-8,290
27	40 Keel	-22,000	-22,000	-22,020	-22,020	-22,010	-22,000	-22,010	-22,020
28	24 Stbd	15,490	18,590	21,680	24,800	22,090	19,290	16,240	13,270
29	24 East	2,360	2,870	3,410	3,920	4,150	4,120	3,920	3,660
30	24 West	-11,470	-11,990	-12,520	-13,050	-13,260	-13,290	-13,150	-12,920
31	16 Stbd	21,250	25,500	29,760	34,020	29,780	25,500	21,250	16,990
32	16 East	830	820	830	810	810	820	830	820
33	16 West	670	660	650	650	650	660	660	660
34	8 Stbd	11,190	13,410	15,660	17,900	15,650	13,410	11,170	8,940
35	8 Keel	2,700	2,690	2,690	2,690	2,690	2,690	2,700	2,710
36	8 Surge	-790	-820	-870	-910	-930	-940	-940	-930

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (1b)							
		Percent Load							
		+30%↓	+20%↓	+10%↓	Still Water	-10%↓	-20%↓	-30%↓	-40%↓
5	108 Stbd	8,950	5,940	2,920	-30	-3,050	-6,050	-9,090	-12,060
6	108 Keel	4,160	4,160	4,150	4,140	4,140	4,150	4,140	4,130
7	98 Stbd	12,320	8,210	4,120	20	-4,000	-8,100	-12,180	-16,280
8	98 East	-870	-870	-870	-870	-870	-860	-860	-860
9	98 West	-770	-770	-760	-760	-760	-760	-760	-750
10	92 Stbd	5,750	3,800	1,870	-0	-1,940	-3,870	-5,800	-7,750
11	92 Keel	-6,720	-6,730	-6,730	-6,740	-6,750	-6,750	-6,770	-6,770
12	86 Stbd	1,990	1,400	610	20	-580	-1,310	-2,200	-2,970
13	86 Keel	-12,430	-12,570	-12,660	-12,660	-12,660	-12,740	-12,910	-13,090
14	80 Stbd	-2,770	-1,850	-930	-0	880	1,800	2,730	3,660
15	80 Keel	-16,190	-16,180	-16,200	-16,260	-16,280	-16,300	-16,280	-16,250
16	72 Stbd	-9,270	-6,190	-3,100	-70	2,940	6,030	9,280	12,370
17	72 Keel	-20,990	-21,000	-21,020	-21,020	-21,010	-21,020	-21,000	-21,000
18	64 Stbd	-13,420	-8,930	-4,430	0	4,490	9,010	13,520	18,020
19	64 East	-12,690	-12,680	-12,690	-12,700	-12,720	-12,700	-12,700	-12,700
20	64 West	-12,750	-12,740	-12,700	-12,740	-12,740	-12,740	-12,740	-12,740
21	56 Stbd	-14,380	-9,560	-4,740	-10	4,730	9,540	14,370	19,180
22	56 East	-13,700	-13,700	-13,720	-13,700	-13,710	-13,720	-13,720	-13,710
23	56 West	-13,690	-13,690	-13,680	-13,690	-13,690	-13,660	-13,660	-13,660
24	48 Stbd	-11,550	-7,430	-3,890	0	3,900	7,830	11,770	15,710
25	48 Keel	-24,210	-24,210	-24,210	-24,220	-24,210	-24,220	-24,210	-24,220
26	40 Stbd	-6,210	-4,170	-2,100	-0	2,020	4,080	6,130	8,180
27	40 Keel	-22,030	-22,010	-22,010	-22,010	-22,010	-22,030	-22,020	-22,010
28	24 Stbd	10,230	7,280	4,030	900	-2,120	-5,200	-8,340	-11,410
29	24 East	3,360	2,960	2,450	1,830	1,120	540	130	-280
30	24 West	-12,640	-12,240	-11,700	-11,040	-10,310	-9,720	-9,300	-8,930
31	16 Stbd	12,750	8,470	4,230	-0	-4,240	-8,490	-12,740	-17,000
32	16 East	820	820	820	820	830	820	820	800
33	16 West	660	650	650	660	660	660	660	650
34	8 Stbd	6,710	4,470	2,223	0	-2,180	-4,410	-6,650	-8,890
35	8 Keel	2,710	-2,710	-2,720	-2,710	-2,710	2,710	-2,720	-2,700
36	8 Surge	-910	-900	-880	-820	-790	-820	-850	-880

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb) Percent Load -50%↓	-60%↓	-70%↓	-80%↓	-70%↑	-60%↑	-50%↑	-40%↑
5	108 Stbd	-15,090	-18,090	-21,120	-24,110	-21,110	-18,100	-15,100	-12,080
6	108 Keel	4,120	4,120	4,110	4,130	4,130	4,120	4,120	4,130
7	98 Stbd	-20,370	-24,450	-28,540	-32,630	-28,240	-24,460	-20,370	-16,290
8	98 East	-860	-860	-860	-860	-860	-870	-870	-860
9	98 West	-760	-760	-760	-780	-780	-750	-750	-740
10	92 Stbd	-9,670	-11,610	-13,540	-15,480	-13,470	-11,620	-9,680	-7,740
11	92 Keel	-6,770	-6,750	-6,760	-6,750	-6,750	-6,760	-6,760	-6,750
12	86 Stbd	-3,750	-4,530	-5,300	-6,070	-5,650	-5,050	-4,350	-3,620
13	86 Keel	-13,200	-13,300	-13,380	-13,500	-13,490	-13,410	-13,260	-13,100
14	80 Stbd	4,580	5,510	6,430	7,350	6,430	5,510	4,590	3,670
15	80 Keel	-16,260	-16,290	-16,370	-16,370	-16,310	-16,270	-16,260	-16,250
16	72 Stbd	15,450	18,550	21,620	24,710	21,660	18,570	15,470	12,400
17	72 Keel	-21,000	-21,000	-21,020	-21,000	-21,000	-21,020	-21,036	-21,020
18	64 Stbd	22,520	27,040	31,560	36,050	31,610	27,090	22,550	18,030
19	64 East	-12,690	-12,690	-12,710	-12,700	-12,700	-12,700	-12,690	-12,700
20	64 West	-12,720	-12,790	-12,730	-12,730	-12,730	-12,790	-12,830	-12,820
21	56 Stbd	23,970	28,800	33,630	38,420	33,640	28,830	23,970	19,180
22	56 East	-13,700	-13,710	-13,720	-13,720	-13,720	-13,730	-13,730	-13,730
23	56 West	-13,660	-13,680	-13,700	-13,670	-13,660	-13,660	-13,630	-13,630
24	48 Stbd	19,650	23,580	27,510	31,420	27,510	23,590	19,650	15,710
25	48 Keel	-24,220	-24,220	-24,230	-24,220	-24,240	-24,220	-24,230	-24,230
26	40 Stbd	10,230	12,290	14,330	16,390	14,350	12,300	10,250	8,180
27	40 Keel	-22,000	-22,020	-22,020	-22,020	-22,030	-22,030	-22,010	-22,040
28	24 Stbd	-14,480	-17,600	-20,630	-23,650	-21,000	-18,140	-15,140	-12,120
29	24 East	-790	-1,250	-1,680	-2,110	-2,350	-2,360	-2,170	-1,930
30	24 West	-8,450	-8,020	-7,620	-7,240	-6,940	-6,900	-7,000	-7,190
31	16 Stbd	-21,250	-25,490	-29,750	-34,020	-29,770	-25,510	-21,280	-17,020
32	16 East	800	800	810	810	810	810	810	810
33	16 West	650	660	660	660	660	660	660	650
34	8 Stbd	-11,130	-13,370	-15,600	-17,850	-15,600	-13,360	-11,130	-8,890
35	8 Keel	2,700	2,720	2,710	2,710	2,710	2,700	2,700	2,700
36	8 Surge	-910	-920	-940	-950	-930	-920	-910	-880

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb) Percent Load -30%↑	-20%↑	-10%↑	Still Water + Zero Stress	Zero	Unlock
5	108 Stbd	-9,100	-6,050	-3,050	-30	-40	-40
6	108 Keel	4,130	4,140	4,140	4,130	-2,340	0
7	98 Stbd	-12,190	-8,110	-4,010	10	20	20
8	98 East	-850	-870	-860	-860	-5,970	0
9	98 West	-750	-770	-770	-760	-5,900	120
10	92 Stbd	-5,810	-3,880	-1,940	-0	0	0
11	92 Keel	-6,760	-6,750	-6,740	-6,730	-11,300	-330
12	86 Stbd	-2,880	-2,190	-1,450	-790	-720	-1,490
13	86 Keel	-12,920	-12,780	-12,740	-12,720	-14,720	-50,190
14	80 Stbd	2,730	1,800	870	-0	-0	0
15	80 Keel	-16,280	-16,260	-16,200	-16,170	-13,880	-120
16	72 Stbd	9,290	6,210	3,130	40	40	40
17	72 Keel	-21,020	-21,020	-21,030	-21,030	-13,420	-110
18	64 Stbd	13,540	9,020	4,510	0	0	0
19	64 East	-12,700	-12,700	-12,680	-12,690	-7,070	40
20	64 West	-12,820	-12,830	-12,830	-12,820	-7,180	110
21	56 Stbd	14,360	9,540	4,740	-0	0	0
22	56 East	-13,740	-13,730	-13,720	-13,730	-7,740	220
23	56 West	-13,630	-13,650	-13,650	-13,650	-7,700	10
24	48 Stbd	11,770	7,830	3,900	0	0	0
25	48 Keel	-24,230	-24,230	-24,230	-24,220	-14,420	60
26	40 Stbd	6,130	4,080	2,020	-0	0	0
27	40 Keel	-22,030	-22,050	-22,030	-22,030	-16,880	-30
28	24 Stbd	-9,100	-6,070	-2,990	20	70	-470
29	24 East	-1,620	-1,220	-720	-140	-3,870	-16,960
30	24 West	-7,470	-7,850	-8,380	-9,010	-12,930	-19,830
31	16 Stbd	-12,760	-8,480	-4,230	0	0	0
32	16 East	830	820	820	800	-4,500	50
33	16 West	660	650	650	650	-4,560	-110
34	8 Stbd	-6,660	-4,420	-2,180	0	0	0
35	8 Keel	2,700	2,700	2,700	2,700	-2,800	-40
36	8 Surge	-850	-800	-780	-800	-970	2,460

TABLE D.7 - ASEM STATIC TEST 3--MEASURED LOADS

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb) Unlock	Zero Stress	Still Water + Zero Stress	Lateral Offset	Percent Load +10% ↑	+20% ↑	+30% ↑	+40% ↑
5	108 Stbd	-250	0	0	20,750	19,100	17,120	14,750	11,950
6	108 Keel	-90	-3,460	4,060	4,070	-1,900	-7,890	-13,900	-19,920
7	98 Stbd	140	0	10	28,330	26,060	23,350	20,120	16,350
8	98 East	0	-5,940	-810	-800	-4,900	-9,000	-13,090	-17,180
9	98 West	90	-5,940	-1,000	-860	-4,950	-9,050	-13,150	-17,300
10	92 Stbd	230	70	0	13,350	12,280	11,000	9,450	7,690
11	92 Keel	-470	-11,000	-6,880	-6,890	-10,620	-14,380	-18,090	-21,810
12	86 Stbd	500	0	-600	3,680	3,190	2,200	1,940	1,440
13	86 Keel	-45,790	-13,900	-11,780	-11,150	-13,380	-15,520	-17,710	-19,720
14	80 Stbd	0	-30	0	-6,370	-5,860	-5,250	-4,520	-3,680
15	80 Keel	-80	-13,880	-16,160	-16,080	-14,240	-17,400	-10,510	-8,620
16	72 Stbd	140	0	0	-21,350	-19,640	-17,570	-15,120	-12,270
17	72 Keel	-210	-13,470	-21,140	-21,160	-15,030	-8,940	-2,760	3,630
18	64 Stbd	790	20	30	-31,100	-28,600	-25,630	-22,040	-17,900
19	64 East	20	-7,070	-12,700	-12,680	-8,200	-3,690	800	5,330
20	64 West	120	-7,060	-12,610	-12,650	-8,220	-3,720	850	5,310
21	56 Stbd	840	0	0	-33,300	-30,620	-27,420	-23,580	-19,150
22	56 East	400	-7,630	-13,640	-13,610	-8,800	-4,020	1,060	5,830
23	56 West	550	-7,570	-13,920	-13,940	-8,590	-3,470	1,560	6,230
24	48 Stbd	270	0	0	-26,140	-24,060	-21,540	-18,560	-15,760
25	48 Keel	730	-14,400	-24,160	-24,140	-16,300	-8,450	-610	7,320
26	40 Stbd	100	0	0	-14,250	-13,110	-11,750	-10,110	-8,230
27	40 Keel	3,000	-16,750	-22,040	-22,050	-17,830	-13,580	-9,350	-5,140
28	24 Stbd	1,120	990	400	20,940	19,370	17,580	15,190	12,900
29	24 East	-14,030	-3,980	780	3,800	820	-1,950	-5,[illegible]0	-9,540
30	24 West	-19,340	-12,630	-8,900	-11,980	-15,[illegible]	19,[illegible]	-2,[illegible]	-[illegible],090
31	16 Stbd	-930	0	10	29,380	27,050	24,[illegible]	[illegible]	[illegible],990
32	16 East	20	-4,510	770	780	-3,500	[illegible]	[illegible]	[illegible]
33	16 West	-360	-4,650	640	760	-3,400	[illegible]	[illegible]	[illegible]
34	8 Stbd	C	0	0	15,460	14,[illegible]	[illegible]	[illegible]	[illegible]
35	8 Keel	-110	-2,840	2,760	2,790	-1,[illegible]	[illegible]	[illegible]	[illegible]
36	8 Surge	-2,840	-1,470	-1,000	-1,060	-1,[illegible]	[illegible]	[illegible]	[illegible]

TABLE D.7 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (1b)							
		Percent Load							
		+50% ↑	+60% ↑	+70% ↑	+80% ↑	+70% ↓	+60% ↓	+50% ↓	+40% ↓
5	108 Stbd	8,700	4,690	-4,400	-12,050	-20,600	-22,840	-23,800	-24,070
6	108 Keel	-25,930	-31,920	-37,920	-43,920	-37,900	-31,900	-25,910	-19,940
7	98 Stbd	11,900	6,470	-550	-16,300	-27,960	-30,940	-32,260	-32,610
8	98 East	-21,290	-25,400	-29,490	-33,580	-29,470	-25,380	-21,300	-17,180
9	98 West	-21,400	-25,490	-29,600	-33,780	-29,640	-25,520	-21,420	-17,290
10	92 Stbd	5,580	3,010	-290	-7,740	-13,200	-14,700	-15,300	-15,400
11	92 Keel	-25,600	-29,780	-33,530	-37,200	-33,840	-30,120	-26,400	-22,250
12	86 Stbd	720	-40	-1,010	-3,190	-5,140	-5,600	-5,910	-6,040
13	86 Keel	-21,210	-22,220	-23,780	-24,800	-22,670	-20,750	-19,300	-18,100
14	80 Stbd	-2,670	-1,450	80	3,640	6,240	6,900	7,200	7,280
15	80 Keel	-6,770	-4,880	-3,020	-1,140	-2,970	-5,100	-6,950	-8,860
16	72 Stbd	-8,900	-4,800	450	12,390	21,230	23,500	24,520	24,790
17	72 Keel	9,750	15,900	22,000	28,140	22,270	16,180	10,040	3,910
18	64 Stbd	-12,990	-7,000	710	18,090	30,980	34,260	35,740	36,130
19	64 East	9,850	14,360	18,890	23,400	18,890	14,380	9,860	5,340
20	64 West	9,760	14,220	18,690	23,120	18,670	14,240	9,780	5,330
21	56 Stbd	-13,940	-7,550	640	19,190	32,930	36,420	38,010	38,430
22	56 East	10,350	15,110	19,940	24,700	19,940	15,110	10,340	5,510
23	56 West	11,050	15,510	20,330	25,080	19,770	14,720	9,940	5,000
24	48 Stbd	-11,680	-6,410	60	15,090	26,890	29,740	31,030	31,360
25	48 Keel	15,150	23,020	30,850	38,670	30,840	23,000	15,160	7,330
26	40 Stbd	-6,000	-3,270	300	8,210	14,070	15,570	16,240	16,420
27	40 Keel	-1,270	3,090	7,310	10,970	6,970	2,960	-1,180	-5,210
28	24 Stbd	9,770	5,800	950	-10,090	-19,070	-21,480	-22,730	-23,260
29	24 East	-13,100	-17,000	-21,230	-26,640	-25,080	-22,480	-19,600	-16,460
30	24 West	-26,210	-28,270	-29,910	-29,500	-24,850	-21,360	-18,320	-15,520
31	16 Stbd	12,350	6,720	-550	-16,910	-29,020	-32,090	-33,490	-33,850
32	16 East	-20,410	-24,630	-28,860	-33,100	-28,860	-24,610	-20,340	-16,160
33	16 West	-20,330	-24,590	-28,840	-33,110	-28,840	-24,600	-20,360	-16,080
34	8 Stbd	6,510	3,540	-270	-8,890	-15,270	-16,910	-17,650	-17,840
35	8 Keel	-19,540	-24,020	-28,470	-32,940	-28,470	-24,000	-19,560	-15,070
36	8 Surge	-2,230	-2,440	-2,690	-3,020	-3,180	-3,170	-3,040	-2,760

TABLE D.7 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)							
		Percent Load							
		+30% ↓	+20% ↓	+10% ↓	Still Water	-10% ↓	-20% ↓	-30% ↓	-40% ↓
5	108 Stbd	-23,800	-23,200	-22,200	-20,820	-19,170	-17,190	-14,810	-12,020
6	108 Keel	-13,900	-7,940	-1,940	4,060	10,050	16,040	22,050	28,060
7	98 Stbd	-32,300	-31,500	-30,100	-28,280	-26,030	-23,300	-20,060	-16,300
8	98 East	-13,090	-8,990	-4,900	-810	3,280	7,370	11,460	15,550
9	98 West	-13,170	-9,080	-4,980	-860	3,240	7,360	11,460	15,580
10	92 Stbd	-15,300	-14,910	-14,100	-13,400	-12,300	-11,030	-9,500	-7,730
11	92 Keel	-18,500	-14,800	-10,840	-7,040	-3,500	650	4,500	8,660
12	86 Stbd	-6,100	-6,000	-5,850	-5,780	-5,800	-5,520	-5,110	-4,530
13	86 Keel	-16,540	-14,520	-13,450	-12,150	-10,400	-9,170	-7,770	-6,450
14	80 Stbd	7,220	7,020	6,700	6,310	5,800	5,200	4,470	3,640
15	80 Keel	-10,740	-12,600	-14,470	-16,340	-18,210	-20,090	-21,990	-23,900
16	72 Stbd	24,540	23,900	22,850	21,460	19,760	17,700	15,240	12,380
17	72 Keel	-2,200	-8,660	-14,780	-20,910	-27,070	-33,160	-39,300	-45,430
18	64 Stbd	35,780	34,840	33,330	31,320	28,850	25,860	22,260	18,100
19	64 East	840	-3,640	-8,160	-12,660	-17,160	-21,710	-26,340	-30,900
20	64 West	900	-3,700	-8,150	-12,610	-17,100	-21,670	-26,050	-30,520
21	56 Stbd	38,040	37,040	35,420	33,280	30,630	27,440	23,610	19,200
22	56 East	740	-4,330	-8,870	-13,690	-18,430	-23,310	-28,000	-32,800
23	56 West	-20	-4,940	-9,620	-14,020	-18,760	-23,780	-28,200	-33,180
24	48 Stbd	31,050	30,240	28,920	27,170	25,000	22,400	19,300	15,700
25	48 Keel	-640	-8,410	-16,280	-24,100	-31,950	-39,800	-47,640	-55,500
26	40 Stbd	16,250	15,830	15,150	14,230	13,100	11,750	10,120	8,230
27	40 Keel	-9,220	-13,660	-17,860	-21,990	-26,180	-30,320	-34,480	-38,640
28	24 Stbd	-23,290	-22,760	-21,940	-20,780	-19,400	-17,500	-15,210	-12,600
29	24 East	-13,200	-9,470	-6,200	-2,880	-50	3,400	6,630	9,830
30	24 West	-12,890	-10,300	-7,890	-5,370	-2,340	250	2,900	5,830
31	16 Stbd	-33,530	-32,650	-31,120	-29,300	-26,960	-24,150	-20,800	-16,920
32	16 East	-11,890	-7,690	-3,460	800	5,030	9,260	13,490	17,720
33	16 West	-11,840	-7,590	-3,340	840	5,090	9,330	13,580	17,840
34	8 Stbd	-17,670	-17,200	-16,470	-15,440	-14,210	-12,730	-10,950	-8,880
35	8 Keel	-1,059	-6,120	-1,640	2,840	7,320	11,800	16,270	20,740
36	8 Surge	-2,410	-2,040	-1,700	-1,410	-1,120	-1,000	-700	-300

TABLE D.7 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)							
		Percent Load							
		-50%↓	-60%↓	-70%↓	-80%↓	-70%↑	-60%↑	-50%↑	-40%↑
5	108 Stbd	-8,780	-4,780	350	11,930	20,520	22,700	23,700	23,960
6	108 Keel	34,060	40,040	46,050	52,040	46,050	40,050	34,050	28,040
7	98 Stbd	-11,870	-6,440	570	16,350	28,040	31,020	32,350	32,710
8	98 East	19,640	23,730	27,830	31,930	27,850	23,770	19,670	15,580
9	98 West	19,700	23,810	27,970	32,090	27,980	23,850	19,720	15,640
10	92 Stbd	-5,640	-3,060	220	7,670	13,180	14,600	15,230	15,400
11	92 Keel	12,380	16,110	20,170	23,930	20,210	16,470	12,730	9,010
12	86 Stbd	-3,750	-2,630	-1,070	2,880	5,220	5,700	5,980	5,820
13	86 Keel	-4,580	-2,600	-1,080	1,750	650	-910	-2,740	-4,620
14	80 Stbd	2,650	1,420	-130	-3,660	-6,300	-6,980	-7,260	-7,340
15	80 Keel	-25,730	-27,600	-29,200	-31,050	-29,170	-27,320	-25,480	-2,363
16	72 Stbd	9,020	4,900	-350	-12,300	-21,150	-23,400	-24,430	-24,700
17	72 Keel	-51,570	-58,060	-64,170	-70,290	-64,180	-58,060	-51,940	-4,581
18	64 Stbd	13,200	7,200	-520	-17,910	-30,740	-34,020	-35,500	-35,900
19	64 East	-35,400	-39,920	-44,410	-48,930	-44,410	-39,880	-35,370	-30,860
20	64 West	-34,900	-39,450	-44,220	-48,730	-44,230	-39,760	-35,270	-30,770
21	56 Stbd	13,970	7,570	-630	-19,190	-32,960	-36,450	-38,040	-38,460
22	56 East	-37,700	-42,470	-47,290	-52,060	-47,280	-42,450	-37,700	-32,800
23	56 West	-38,120	-42,600	-47,510	-52,410	-47,510	-42,620	-37,720	-32,810
24	48 Stbd	11,430	6,220	-500	-15,600	-26,440	-29,290	-31,040	-31,400
25	48 Keel	-63,340	-71,190	-79,040	-86,880	-78,920	-71,060	-63,220	-55,380
26	40 Stbd	6,000	3,280	-300	-8,220	-14,070	-15,600	-16,260	-16,400
27	40 Keel	-42,800	-46,950	-50,780	-54,950	-50,780	-46,640	-42,490	-38,310
28	24 Stbd	-9,420	-5,470	-300	11,600	20,700	23,000	24,420	24,750
29	24 East	13,150	16,580	20,090	25,070	23,550	20,960	18,440	15,700
30	24 West	8,600	11,240	13,850	15,360	11,170	7,610	4,020	560
31	16 Stbd	-12,280	-6,670	610	16,940	28,980	32,060	33,440	33,830
32	16 East	21,950	26,170	30,400	34,630	30,400	26,150	21,920	17,700
33	16 West	22,080	26,330	30,580	34,830	30,570	26,320	22,070	17,820
34	8 Stbd	-6,450	-3,480	330	8,950	15,340	16,960	17,700	17,900
35	8 Keel	25,230	29,690	34,160	38,580	34,120	29,670	25,200	20,730
36	8 Surge	50	420	710	970	470	370	110	-110

TABLE D.7 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb) Percent Load -30% ↑	-20% ↑	-10% ↑	Lateral Offset	Still Water+Zero Stress	Zero	Lock
5	108 Stbd	23,710	23,100	22,100	20,750	-10	-10	0
6	108 Keel	22,060	16,050	10,070	4,100	4,070	-3,400	-50
7	98 Stbd	32,400	31,550	30,160	28,330	0	0	0
8	98 East	11,460	7,400	3,300	-800	-800	-5,900	80
9	98 West	11,490	7,390	3,250	-840	-860	-5,980	10
10	92 Stbd	15,240	14,850	14,200	13,340	0	0	0
11	92 Keel	5,270	1,180	-2,580	-6,580	-6,600	-11,280	-100
12	86 Stbd	5,410	5,090	4,610	4,130	-170	-180	-70
13	86 Keel	-6,530	-8,170	-10,160	-11,660	-12,270	-14,310	-47,970
14	80 Stbd	-7,270	-7,080	-6,770	-6,350	0	0	0
15	80 Keel	-21,740	-19,870	-18,020	-16,170	-16,220	-13,840	-60
16	72 Stbd	-24,440	-23,790	-22,760	-21,360	0	0	0
17	72 Keel	-39,660	-33,530	-27,410	-21,280	-21,270	-13,670	-380
18	64 Stbd	-35,550	-34,600	-33,100	-31,070	90	90	100
19	64 East	-26,360	-21,670	-17,230	-12,670	-12,660	-7,040	70
20	64 West	-26,270	-21,730	-17,260	-12,730	-12,650	-7,050	120
21	56 Stbd	-38,070	-37,070	-35,450	-33,290	0	0	0
22	56 East	-27,990	-32,080	-18,450	-13,700	-13,690	-7,700	250
23	56 West	-27,950	-23,070	-18,180	-13,540	-13,570	-7,340	750
24	48 Stbd	-31,080	-30,260	-28,940	-27,160	330	0	0
25	48 Keel	-57,530	-39,700	-31,870	-24,040	-24,000	-14,220	260
26	40 Stbd	-16,260	-15,840	-15,150	-14,220	20	10	10
27	40 Keel	-34,170	-30,030	-25,860	-21,700	-21,700	-16,520	480
28	24 Stbd	24,600	24,040	23,110	21,800	730	780	540
29	24 East	12,700	9,860	6,940	4,020	190	-2,450	-16,760
30	24 West	-2,520	-5,970	-9,280	-12,440	-10,510	-13,410	-19,540
31	16 Stbd	3,348	32,600	31,170	29,270	-30	-20	-20
32	16 East	13,480	9,250	5,020	810	800	-4,490	60
33	16 West	13,600	9,330	5,080	840	840	-4,370	80
34	8 Stbd	17,710	1,725	16,500	15,490	0	0	0
35	8 Keel	16,260	11,790	7,320	2,840	2,840	-2,740	30
36	8 Surge	-350	-530	-790	-1,040	-1,040	-1,280	-2,760

TABLE D.8 - ASEM STATIC TEST 4--MEASURED LOADS

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)							
		Unlock	Zero Stress	Still Water+Zero Stress	Lateral Offset	Percent Load +10% ↑	+20% ↑	+30% ↑	+40% ↑
5	108 Stbd	-1,030	0	-30	-20,860	-19,200	-17,200	-14,830	-12,060
6	108 Keel	-170	-3,500	4,110	4,080	-1,900	-7,930	-13,920	-19,940
7	98 Stbd	0	0	0	-28,320	-26,070	-23,350	-20,110	-16,360
8	98 East	-2,200	-5,980	-870	-870	-4,970	-9,050	-13,180	-17,230
9	98 West	130	-6,090	-970	-990	-5,050	-9,170	-13,260	-17,290
10	92 Stbd	0	-30	-20	-13,400	-12,400	-11,070	-9,530	-7,760
11	92 Keel	-690	-11,640	-7,060	-6,720	-10,400	-14,050	-18,130	-21,780
12	86 Stbd	2,510	-110	-420	-6,050	-4,780	-4,250	-3,510	-2,840
13	86 Keel	-49,110	-13,780	-11,790	-12,940	-14,330	-15,650	-17,270	-18,870
14	80 Stbd	-1,890	0	0	6,350	5,840	5,230	4,500	3,660
15	80 Keel	320	-13,890	-16,240	-16,280	-14,400	-12,510	-10,650	-8,780
16	72 Stbd	-150	0	-0	21,320	19,630	17,580	15,130	12,300
17	72 Keel	-100	-13,480	-21,170	-21,190	-15,050	-8,930	-2,470	3,640
18	64 Stbd	40	30	30	31,270	28,790	25,800	22,200	18,060
19	64 East	80	-7,020	-12,650	-12,650	-8,160	-3,640	840	5,340
20	64 West	180	-7,000	-12,690	-12,690	-8,180	-3,660	920	5,400
21	56 Stbd	0	0	-0	33,280	30,640	27,460	23,620	19,190
22	56 East	4,390	-7,680	-13,670	-13,680	-8,870	-4,090	970	5,740
23	56 West	180	-7,640	-13,610	-13,640	-8,860	-4,090	770	5,540
24	48 Stbd	0	0	0	29,530	25,000	22,400	19,300	15,680
25	48 Keel	-200	-14,400	-24,220	-24,180	-16,340	-8,510	-680	7,240
26	40 Stbd	60	0	-0	14,220	13,090	11,750	10,110	8,220
27	40 Keel	420	-16,740	-21,940	-21,920	-17,800	-13,690	-9,560	-5,430
28	24 Stbd	120	400	280	-21,970	-19,040	-17,160	-14,820	-12,160
29	24 East	16,370	3,240	-620	1,540	5,390	8,900	12,030	14,980
30	24 West	-20,540	-12,610	-9,130	-7,100	-9,120	-11,460	-14,590	-17,710
31	16 Stbd	-120	0	0	-29,370	-27,040	-24,220	-20,860	-16,950
32	16 East	-10	-4,630	650	640	-3,600	-7,860	-12,110	-16,310
33	16 West	-240	-4,650	510	490	-3,690	-7,920	-12,190	-16,470
34	8 Stbd	0	0	0	-15,430	-14,200	-12,710	-10,940	-8,890
35	8 Keel	-90	-2,820	2,690	2,700	-1,730	-6,140	-10,560	-14,980
36	8 Surge	-4,560	-1,400	-950	-1,040	-1,220	-1,370	-1,500	-1,680

TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)							
		Percent Load							
		+50% ↑	+60% ↑	+70% ↑	+80% ↑	+70% ↓	+60% ↓	+50% ↓	+40% ↓
5	108 Stbd	-8,800	-4,790	330	11,920	20,520	22,700	23,700	23,960
6	108 Keel	-25,930	-31,940	-37,920	-43,930	-37,920	-31,920	-25,940	-19,940
7	98 Stbd	-11,900	-6,470	530	16,300	27,990	30,970	32,310	32,670
8	98 East	-21,320	-25,460	-29,520	-33,610	-29,520	-25,430	-21,300	-17,250
9	98 West	-21,400	-25,500	-29,610	-33,690	-29,620	-25,510	-21,400	-17,320
10	92 Stbd	-5,660	-3,090	200	7,650	13,180	14,580	15,220	15,390
11	92 Keel	-25,880	-29,700	-33,390	-37,420	-33,790	-30,110	-26,420	-22,340
12	86 Stbd	-2,100	-1,300	-470	1,340	2,910	3,470	3,830	4,050
13	86 Keel	-20,010	-21,470	-23,360	-25,030	-23,660	-21,960	-20,210	-18,690
14	80 Stbd	2,660	1,430	-120	-3,660	-6,300	-6,970	-7,280	-7,360
15	80 Keel	-6,970	-5,090	-3,210	-1,390	-3,180	-5,080	-6,930	-8,810
16	72 Stbd	8,940	4,850	-370	-12,260	-21,050	-23,300	-24,310	-24,580
17	72 Keel	9,780	15,940	22,030	28,180	22,080	15,980	9,810	3,660
18	64 Stbd	13,140	7,120	-580	-17,950	-30,810	-34,100	-35,580	-35,970
19	64 East	9,850	14,380	18,890	23,370	18,870	14,380	9,850	5,340
20	64 West	9,870	14,350	18,850	23,300	18,820	14,340	9,910	5,390
21	56 Stbd	13,970	-7,560	-630	-19,190	-32,950	-36,460	-38,060	-38,470
22	56 East	10,560	15,110	19,970	24,700	19,940	15,090	10,360	5,510
23	56 West	10,350	15,080	19,870	24,640	19,910	15,130	10,340	5,590
24	48 Stbd	11,400	6,190	-540	-15,670	-26,880	-29,730	-31,030	-31,360
25	48 Keel	15,070	22,900	30,750	38,590	30,760	22,910	15,100	7,240
26	40 Stbd	5,990	3,250	-330	-8,250	-14,100	-15,610	-16,300	-16,490
27	40 Keel	-1,320	2,910	7,060	11,150	7,050	2,920	-1,320	-5,460
28	24 Stbd	-9,030	-5,220	-270	10,700	19,510	22,060	23,460	24,090
29	24 East	17,920	20,580	22,970	24,410	19,240	14,950	10,930	7,310
30	24 West	-21,140	-24,660	-28,540	-33,550	-33,070	-31,390	-29,300	-26,810
31	16 Stbd	-12,330	-6,700	590	16,980	29,110	32,210	33,610	33,970
32	16 East	-20,550	-24,800	-29,040	-33,290	-29,040	-24,780	-20,550	-16,310
33	16 West	-20,480	-24,730	-28,990	-33,230	-28,980	-24,720	-20,500	-16,260
34	8 Stbd	-6,450	-3,490	320	8,940	15,330	16,950	17,680	17,880
35	8 Keel	-19,430	-23,840	-28,270	-32,690	-28,260	-23,850	-19,440	-15,010
36	8 Surge	-1,850	-2,100	-2,450	-2,650	-2,780	-2,800	-2,670	-2,380

TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)							
		Percent Load							
		+30%↓	+20%↓	+10%↓	Still Water	-10% ↓	-20%↓	-30%↓	-40%↓
5	108 Stbd	23,750	23,090	22,090	20,760	19,090	17,110	14,700	11,940
6	108 Keel	-13,950	-7,960	-1,970	4,020	10,010	16,000	21,990	28,020
7	98 Stbd	32,340	31,500	30,140	28,310	26,060	23,330	20,090	16,320
8	98 East	-13,160	-9,070	-4,990	-890	3,200	7,290	11,380	15,460
9	98 West	-13,260	-9,180	-5,090	-1,000	3,100	7,210	11,300	15,390
10	92 Stbd	15,240	14,830	14,180	13,330	12,270	10,980	9,450	7,670
11	92 Keel	-18,670	-14,620	-10,930	-6,900	-3,240	810	4,490	8,560
12	86 Stbd	4,260	4,300	4,240	4,240	4,280	4,290	4,130	3,740
13	86 Keel	-16,870	-14,970	-13,040	-11,710	-9,820	-8,500	-6,660	-5,480
14	80 Stbd	-7,290	-7,090	-6,780	-6,370	-5,860	-5,250	-4,510	-3,670
15	80 Keel	-10,600	-12,500	-14,360	-16,190	-18,100	-19,890	-21,820	-23,630
16	72 Stbd	-24,330	-23,680	-22,650	-21,270	-19,580	-17,530	-15,090	-12,250
17	72 Keel	-2,470	-8,640	-14,780	-20,900	-27,080	-33,170	-39,340	-45,470
18	64 Stbd	-35,620	-34,690	-33,180	-31,150	-28,640	-25,660	-22,090	-17,950
19	64 East	830	-3,700	-8,190	-12,690	-17,200	-21,690	-26,340	-30,860
20	64 West	920	-3,790	-8,290	-12,790	-17,290	-21,790	-26,300	-30,750
21	56 Stbd	-38,090	-37,090	-35,470	-33,300	-30,640	-27,440	-23,600	-19,180
22	56 East	740	-4,340	-9,110	-13,720	-18,490	-23,340	-28,050	-32,950
23	56 West	820	-4,040	-8,810	-13,590	-18,350	-23,130	-27,910	-32,750
24	48 Stbd	-31,050	-30,220	-28,920	-27,100	-24,990	-22,390	-19,290	-15,620
25	48 Keel	-670	-8,530	-16,390	-24,220	-32,070	-39,890	-47,720	-55,540
26	40 Stbd	-16,320	-15,880	-15,190	-14,270	-13,140	-11,770	-10,150	-8,270
27	40 Keel	-9,580	-13,740	-17,860	-21,970	-26,120	-30,240	-34,370	-38,500
28	24 Stbd	24,170	23,780	22,990	21,870	20,510	18,890	16,860	14,380
29	24 East	3,920	650	-2,290	-5,550	-8,900	-12,470	-16,030	-19,390
30	24 West	-24,090	-20,960	-17,800	-14,820	-12,060	-9,470	-6,860	-4,070
31	16 Stbd	33,640	32,760	31,340	29,420	27,090	24,280	20,900	17,000
32	16 East	-12,100	-7,870	-3,650	610	4,830	9,070	13,290	17,530
33	16 West	-11,980	-7,740	-3,470	660	4,910	9,170	13,420	17,670
34	8 Stbd	17,700	17,230	16,480	15,480	14,240	12,760	10,990	8,940
35	8 Keel	-10,580	-6,150	-1,740	2,670	7,090	11,500	15,930	20,350
36	8 Surge	-2,010	-1,670	-1,340	-1,090	-940	-870	-640	-290

TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)							
		Percent Load							
		-50%↓	-60%↓	-70%↓	-80%↓	-70%↑	-60%↑	-50%↑	-40%↑
5	108 Stbd	8,660	4,660	-480	-12,090	-20,690	-22,860	-23,840	-24,090
6	108 Keel	34,000	40,250	46,260	52,230	46,240	40,240	34,240	28,250
7	98 Stbd	11,870	6,440	-590	-16,340	-28,010	-31,000	-32,330	-32,690
8	98 East	19,580	23,660	27,750	31,820	27,740	23,640	19,550	15,450
9	98 West	19,470	23,590	27,670	31,750	27,710	23,610	19,530	15,450
10	92 Stbd	5,570	3,010	-270	-7,730	-13,320	-14,680	-15,360	-15,490
11	92 Keel	12,390	16,260	19,940	23,980	20,360	16,690	12,800	8,910
12	86 Stbd	3,090	2,230	800	-3,170	-5,990	-6,580	-6,750	-6,640
13	86 Keel	-3,900	-2,980	-1,660	-1,430	-3,880	-5,450	-6,600	-7,910
14	80 Stbd	-2,660	-1,440	110	3,660	6,290	6,960	-7,250	7,350
15	80 Keel	-25,500	-27,380	-29,250	-31,070	-29,220	-27,320	-25,530	-23,670
16	72 Stbd	-8,910	-4,810	410	12,290	21,100	25,340	24,350	24,610
17	72 Keel	-51,830	-57,980	-64,090	-70,240	-64,120	-58,010	-51,850	-45,730
18	64 Stbd	-13,030	-7,030	650	18,040	30,930	34,200	35,690	36,070
19	64 East	-35,370	-39,870	-44,410	-48,910	-44,400	-39,900	-35,400	-30,870
20	64 West	-35,150	-39,580	-44,070	-48,520	-44,020	-39,500	-35,100	-30,600
21	56 Stbd	-13,940	-7,560	630	19,190	32,950	36,440	38,020	38,450
22	56 East	-37,790	-42,520	-47,350	-52,150	-47,370	-42,510	-37,790	-32,900
23	56 West	-37,590	-42,520	-47,300	-52,100	-47,300	-42,520	-37,810	-32,970
24	48 Stbd	-11,340	-6,100	560	15,700	26,920	29,790	31,070	31,410
25	48 Keel	-63,400	-71,240	-79,090	-86,940	-79,090	-71,260	-63,450	-55,570
26	40 Stbd	-6,030	-3,290	270	8,200	14,070	15,570	16,250	16,430
27	40 Keel	-42,620	-46,750	-50,890	-55,010	-50,890	-46,750	-42,650	-38,490
28	24 Stbd	11,300	7,480	2,260	-9,770	-18,990	-21,530	-22,800	-23,300
29	24 East	-22,260	-25,410	-27,660	-28,380	-23,270	-18,910	-14,860	-11,070
30	24 West	-1,270	1,730	5,600	10,330	9,380	7,820	5,990	3,820
31	16 Stbd	12,360	6,730	-570	-16,940	-29,080	-32,160	-33,550	-33,920
32	16 East	21,750	25,970	30,200	34,690	30,450	26,210	22,000	17,740
33	16 West	21,920	26,150	30,400	34,660	30,380	26,120	21,890	17,640
34	8 Stbd	6,500	3,540	-260	-8,880	-15,290	-16,900	17,640	-17,820
35	8 Keel	25,090	29,520	33,940	38,370	33,960	29,550	25,130	20,690
36	8 Surge	30	460	920	960	720	520	220	0

TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb): Percent Load -30% ↑	-20% ↑	-10% ↑	Lateral Offset	Still Water+Zero Stress	Zero	Unlock
5	108 Stbd	-23,890	-23,270	-22,240	-20,890	-50	-60	-40
6	108 Keel	22,240	16,210	10,260	4,250	4,250	-3,190	120
7	98 Stbd	-32,370	-31,500	-30,150	-28,300	-0	-0	0
8	98 East	11,370	7,290	3,200	-900	-890	-6,000	-20
9	98 West	11,370	7,240	3,120	-970	-920	-6,090	-100
10	92 Stbd	-15,390	-14,910	-14,290	-13,400	-0	-0	0
11	92 Keel	5,230	1,140	2,550	-6,500	-6,540	-11,150	-150
12	86 Stbd	-6,400	-6,250	-5,790	-5,240	-710	-690	-1,500
13	86 Keel	-9,410	-10,500	-11,900	-13,010	-12,500	-14,340	-52,600
14	80 Stbd	7,270	7,090	6,790	6,370	0	0	0
15	80 Keel	-21,760	-19,890	-18,120	-16,230	-16,130	-13,900	-130
16	72 Stbd	24,370	23,740	22,720	21,350	-0	0	0
17	72 Keel	-39,590	-33,440	-27,340	-21,160	-21,160	-13,550	-250
18	64 Stbd	35,730	34,800	33,290	31,290	0	30	20
19	64 East	-26,370	-21,690	-17,190	-12,690	-12,650	-7,040	90
20	64 West	-26,150	-21,690	-17,190	-12,640	-12,740	-7,120	120
21	56 Stbd	38,070	37,070	35,470	33,300	-0	-0	0
22	56 East	-28,150	-23,370	-18,530	-13,770	-13,770	-7,790	180
23	56 West	-28,150	-23,400	-18,610	-13,860	-13,820	-7,890	-150
24	48 Stbd	31,110	30,290	28,970	27,210	-0	0	0
25	48 Keel	-47,740	-39,890	-32,040	-24,200	-24,190	-1,440	90
26	40 Stbd	16,270	15,840	15,140	14,220	-0	0	0
27	40 Keel	-34,380	-30,230	-26,130	-21,990	-21,990	-16,830	40
28	24 Stbd	-23,260	-22,980	-22,060	-20,790	80	140	-670
29	24 East	-7,450	-3,290	-160	3,000	220	4,020	17,160
30	24 Wes'	1,450	-250	-3,120	-6,000	-9,010	-12,810	-21,280
31	16 Stbd	-33,590	-32,720	-3,130	-29,400	0	0	0
32	16 East	13,500	9,280	5,070	850	830	-4,450	90
33	16 West	13,400	9,130	4,900	630	640	-4,590	-140
34	8 Stbd	-17,650	-17,180	-16,440	-15,430	0	0	0
35	8 Keel	16,270	11,850	7,440	3,000	2,980	-2,520	220
36	8 Surge	-210	-470	-680	-850	-820	-990	-2,670

TABLE D.9 - ASEM STATIC TEST 1--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in)							
		Unlock	Zero	Zero Stress	Still Water	Percent Load			
						+10% ↑	+20% ↑	+30% ↑	+40% ↑
1	108 Stbd	-.038	-.020	.038	.043	.028	.043	.040	.052
2	108 Keel	-.003	-.003	-.003	-.003	0	0	0	0
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527
4	98 East	.320	.145	.136	.230	.153	.083	.014	-.055
5	98 West	.077	-.049	-.053	.019	-.041	-.099	-.156	-.214
6	92 Stbd	-.053	-.035	-.003	0	-.009	0	0	.009
7	92 Keel	.067	-.026	-.028	0	-.026	-.045	-.064	-.084
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.005	-.005	-.005	-.005	-.005	-.006	-.006	-.006
10	80 Stbd	-.049	-.037	-.012	-.005	-.017	-.010	-.014	-.009
11	80 Keel	.250	.189	.191	.148	.181	.214	.248	.281
12	72 Stbd	-.065	-.059	-.016	-.005	-.018	-.015	-.023	-.022
13	72 Keel	3.394	3.345	3.350	3.277	3.334	3.392	3.451	3.510
14	64 Stbd	-.036	-.025	-.006	0	-.008	-.005	-.014	-.015
15	64 East	-.121	-.161	-.157	-.276	-.183	-.088	.016	.138
16	64 West	-.010	-.048	-.042	-.143	-.065	.013	.092	.172
17	56 Stbd	-.494	-.510	-.496	-.525	-.511	-.476	-.447	-.408
18	56 East	-.424	-.456	-.443	-.502	-.464	-.406	-.342	-.275
19	56 West	-.185	-.224	-.218	-.329	-.241	-.154	-.067	.019
20	48 Stbd	-.075	-.065	-.052	-.039	-.054	-.056	-.068	-.074
21	48 Keel	-.039	-.086	-.079	-.180	-.098	-.020	.055	.133
22	40 Stbd	.541	.541	.559	.556	.547	.547	.539	.537
23	40 Keel	.018	-.029	-.025	-.110	-.042	.023	.089	.156
24	16 Stbd	-.006	-.004	-.003	-.004	0	0	0	.009
25	16 East	-.004	-.053	-.033	-.030	-.030	-.041	-.052	-.062
26	16 West	.090	-.018	.005	.101	.020	-.020	-.071	-.126
27	8 Stbd	.271	.269	.288	.291	.288	.287	.285	.285
28	8 Keel	-1.285	-1.306	-1.290	-1.327	-1.307	-1.268	-1.232	-1.188
29	No name	.193	.138	.168	.243	.182	.137	.090	.044

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in) Percent Load +50% ↑	+60% ↑	+70% ↑	+80% ↑	+70% ↓	+60% ↓	+50% ↓	+40% ↓
1	108 Stbd	.050	.058	.057	.058	.058	.061	.056	.058
2	108 Keel	0	0	0	-.003	0	0	0	-.003
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527
4	98 East	-.127	-.195	-.264	-.329	-.270	-.207	-.143	-.076
5	98 West	-.274	-.332	-.391	-.449	-.392	-.334	-.277	-.219
6	92 Stbd	.008	.015	.015	.018	.016	.018	.013	.014
7	92 Keel	-.105	-.125	-.145	-.164	-.144	-.124	-.104	-.084
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.014	-.010	-.013	-.014	-.013	-.010	-.011	-.008
11	80 Keel	.315	.348	.381	.416	.385	.352	.321	.287
12	72 Stbd	-.031	-.033	-.044	-.051	-.046	-.038	-.035	-.027
13	72 Keel	3.568	3.626	3.683	3.742	3.688	3.633	3.577	3.520
14	64 Stbd	-.026	-.029	-.041	-.049	-.043	-.032	-.028	-.017
15	64 East	.246	.358	.470	.581	.487	.382	.276	.171
16	64 West	.251	.386	.411	.497	.418	.341	.263	.185
17	56 Stbd	-.388	-.349	-.328	-.297	-.327	-.345	-.382	-.403
18	56 East	-.223	-.155	-.099	-.031	-.092	-.145	-.211	-.262
19	56 West	.107	.194	.281	.370	.288	.204	.120	.034
20	48 Stbd	-.089	-.098	-.116	-.129	-.121	-.107	-.097	-.082
21	48 Keel	.211	.290	.368	.446	.375	.301	.226	.150
22	40 Stbd	.528	.524	.514	.508	.513	.521	.522	.529
23	40 Keel	.225	.291	.360	.428	.368	.306	.243	.176
24	16 Stbd	.012	.019	.021	.026	.023	.020	.013	.010
25	16 East	-.072	-.084	-.093	-.105	-.084	-.066	-.050	-.037
26	16 West	-.180	-.229	-.268	-.307	-.274	-.234	-.188	-.137
27	8 Stbd	.282	.284	.281	.281	.281	.282	.282	.284
28	8 Keel	-1.164	-1.121	-1.096	-1.060	-1.094	-1.117	-1.159	-1.183
29	No name	0	-.047	-.093	-.141	-.089	-.038	.008	.055

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in) Percent Load +30%↓	+20%↓	+10%↓	Still Water	-10%↓	-20%↓	-30%↓	-40%↓
1	108 Stbd	.048	.050	.034	.047	.033	.029	.032	.012
2	108 Keel	-.003	-.003	-.003	-.003	0	0	0	0
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527
4	98 East	-.007	.061	.135	.223	.318	.394	.471	.560
5	98 West	-.161	-.102	-.044	.016	.076	.135	.194	.263
6	92 Stbd	.005	.007	-.004	-.003	-.007	-.011	-.008	-.025
7	92 Keel	-.064	-.045	-.026	-.006	.011	.030	.049	.073
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.012	-.007	-.015	-.004	-.011	-.010	-.005	-.016
11	80 Keel	.254	.218	.184	.147	.112	.078	.041	.007
12	72 Stbd	-.027	-.020	-.024	-.009	-.012	-.008	0	-.006
13	72 Keel	3.461	3.401	3.342	3.279	3.219	3.160	3.098	3.039
14	64 Stbd	-.061	-.005	-.007	.006	.006	.010	.019	.013
15	64 East	.050	-.056	-.157	-.266	-.369	-.461	-.561	-.657
16	64 West	.107	.025	-.054	-.140	-.220	-.297	-.377	-.458
17	56 Stbd	-.442	-.472	-.509	-.525	-.552	-.567	-.576	-.593
18	56 East	-.327	-.393	-.455	-.499	-.544	-.571	-.588	-.607
19	56 West	-.051	-.140	-.229	-.326	-.417	-.503	-.597	-.691
20	48 Stbd	-.076	-.063	-.059	-.043	-.040	-.033	-.022	-.025
21	48 Keel	.071	-.007	-.087	-.176	-.259	-.336	-.419	-.507
22	40 Stbd	.530	.537	.537	.547	.547	.548	.554	.547
23	40 Keel	.107	.035	-.029	-.110	-.185	-.252	-.326	-.407
24	16 Stbd	-.003	-.002	-.003	-.004	-.008	-.012	-.016	-.025
25	16 East	-.027	-.021	-.016	-.025	-.025	-.018	-.013	-.022
26	16 West	-.084	-.033	.006	.091	.134	.176	.219	.240
27	8 Stbd	.284	.286	.289	.292	.295	.296	.298	.296
28	8 Keel	-1.226	-1.262	-1.305	-1.327	-1.365	-1.392	-1.412	-1.450
29	No name	.100	.143	.185	.242	.283	.327	.372	.398

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in) Percent Load -50% ↓	-60% ↓	-70% ↓	-80% ↓	-70% ↑	-60% ↑	-50% ↑	-40% ↑
1	108 Stbd	.011	0	0	0	0	0	.011	.013
2	108 Keel	0	0	0	0	0	0	0	0
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527
4	98 East	.644	.722	.797	.870	.801	.728	.651	.574
5	98 West	.326	.385	.441	.498	.440	.381	.321	.261
6	92 Stbd	-.027	-.033	-.036	-.042	-.038	-.036	-.029	-.028
7	92 Keel	.093	.111	.126	.142	.122	.103	.083	.063
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.013	-.015	-.013	-.014	-.013	-.015	-.012	-.014
11	80 Keel	-.028	-.064	-.103	-.140	-.109	-.077	-.044	-.010
12	72 Stbd	±.003	0	0	0	0	0	0	0
13	72 Keel	2.977	2.917	2.852	2.792	2.845	2.901	2.958	3.015
14	64 Stbd	.020	.020	.026	.027	.027	.022	.022	.017
15	64 East	-.759	-.854	-.952	-1.042	-.964	-.880	-.793	-.704
16	64 West	-.542	-.621	-.705	-.787	-.713	-.638	-.563	-.486
17	56 Stbd	-.602	-.612	-.619	-.628	-.620	-.614	-.604	-.597
18	56 East	-.618	-.629	-.637	-.646	-.638	-.631	-.621	-.612
19	56 West	-.786	-.877	-.973	-1.064	-.982	-.897	-.811	-.723
20	48 Stbd	-.018	-.017	-.009	-.007	-.009	-.016	-.017	-.025
21	48 Keel	-.593	-.675	-.760	-.838	-.768	-.692	-.616	-.538
22	40 Stbd	.550	.548	.552	.550	.550	.547	.548	.544
23	40 Keel	-.485	-.556	-.632	-.704	-.642	-.574	-.505	-.434
24	16 Stbd	-.026	-.031	-.030	-.035	-.031	-.031	-.028	-.027
25	16 East	-.025	-.021	-.018	-.010	-.023	-.033	-.041	-.047
26	16 West	.269	.298	.327	.359	.330	.301	.271	.239
27	8 Stbd	.299	.298	.302	.300	.301	.298	.299	.296
28	8 Keel	-1.473	-1.505	-1.526	-1.558	-1.530	-1.511	-1.481	-1.461
29	No name	.434	.474	.516	.560	.518	.475	.433	.392

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in)					
		Percent Load			Still Water	Zero	Unlock
		-30%↑	-20%↑	-10%↑			
1	108 Stbd	.036	.031	.035	.049	.046	.006
2	108 Keel	0	0	-.003	0	0	0
3	98 Stbd	.527	.527	.527	.527	.527	.527
4	98 East	.491	.414	.335	.235	.134	.329
5	98 West	.198	.137	.077	.018	-.056	.087
6	92 Stbd	-.009	-.013	-.009	0	0	-.033
7	92 Keel	.043	.023	0	-.014	-.040	.071
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	0	-.008	-.009	-.003	-.009	-.037
11	80 Keel	.022	.056	.090	.124	.168	.249
12	72 Stbd	0	0	-.006	-.005	-.015	-.039
13	72 Keel	3.074	3.133	3.192	3.250	3.325	3.396
14	64 Stbd	.024	.015	.010	.011	0	-.029
15	64 East	-.613	-.520	-.425	-.330	-.200	-.143
16	64 West	-.406	-.328	-.248	-.170	-.068	-.013
17	56 Stbd	-.581	-.572	-.558	-.534	-.508	-.496
18	56 East	-.595	-.580	-.558	-.521	-.464	-.431
19	56 West	-.631	-.543	-.454	-.365	-.251	-.196
20	48 Stbd	-.021	-.031	-.038	-.041	-.054	-.076
21	48 Keel	-.454	-.374	-.293	-.213	-.108	-.044
22	40 Stbd	.551	.545	.542	.542	.536	.526
23	40 Keel	-.357	-.285	-.215	-.144	-.054	.008
24	16 Stbd	-.020	-.018	-.014	-.009	-.004	-.014
25	16 East	-.042	-.045	-.048	-.052	-.048	.013
26	16 West	.220	.185	.144	.101	0	.117
27	8 Stbd	.299	.296	.294	.292	.288	.286
28	8 Keel	-1.423	-1.404	-1.378	-1.341	-1.306	-1.290
29	No name	.365	.325	.284	.242	.173	.255

TABLE D.10 - ASEM STATIC TEST 2--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in) Unlock	Zero	Zero Stress	Still Water	Percent Load +10%↑	+20%↑	+30%↑	+40%↑
1	108 Stbd	2.840	2.858	2.867	2.869	2.910	2.923	2.960	2.999
2	108 Keel	-.231	-.448	-.449	-.271	-.271	-.273	-.274	-.276
3	98 Stbd	.270	.251	.254	.247	.251	.262	.250	.253
4	98 East	.326	.168	.162	.258	.257	.255	.252	.248
5	98 West	.119	-.017	-.023	.047	.047	.045	.044	.042
6	92 Stbd	-.045	-.030	-.026	-.025	±.003	±.003	.016	.036
7	92 Keel	.084	-.022	-.028	-.006	-.006	-.008	-.009	-.010
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.009	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.026	-.013	-.014	-.011	-.039	-.071	-.089	-.106
11	80 Keel	.259	.171	.172	.126	.126	.126	.126	.127
12	72 Stbd	-.020	-.012	-.016	-.010	.074	-.129	-.175	-.222
13	72 Keel	3.335	3.254	3.255	3.179	3.178	3.178	3.178	3.178
14	64 Stbd	-.010	.003	-.004	±.003	-.060	-.126	-.184	-.242
15	64 East	-.147	-.224	-.223	-.346	-.350	-.350	-.351	-.352
16	64 West	-.058	-.128	-.128	-.227	-.227	-.228	-.228	-.228
17	56 Stbd	-.445	-.477	-.484	-.514	-.559	-.592	-.613	-.629
18	56 East	-.393	-.445	-.450	-.508	-.546	-.576	-.596	-.614
19	56 West	-.448	-.518	-.519	-.630	-.633	-.634	-.634	-.634
20	48 Stbd	-.038	-.027	-.039	-.032	-.098	-.167	-.233	-.300
21	48 Keel	-.467	-.542	-.542	-.642	-.644	-.644	-.644	-.644
22	40 Stbd	.575	.578	.562	.563	.494	.438	.385	.329
23	40 Keel	.008	-.057	-.054	-.147	-.147	-.144	-.141	-.141
24	16 Stbd	.055	.066	.026	.016	.055	.088	.116	.141
25	16 East	.047	.004	-.004	±.002	-.006	-.007	-.008	-.009
26	16 West	.122	.046	.046	.140	.135	.134	.136	.139
27	8 Stbd	.349	.353	.326	.323	.327	.326	.318	.307
28	8 Keel	-1.238	-1.273	-1.282	-1.321	-1.382	-1.445	-1.502	-1.562
29	No name	.302	.237	.235	.309	.304	.303	.303	.302

TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in) Percent Load +50%↑	+60%↑	+70%↑	+80%↑	+70%↓	+60%↓	+50%↓	+40%↓
1	108 Stbd	3.038	3.077	3.118	3.155	3.126	3.092	3.056	3.019
2	108 Keel	-.277	-.279	-.279	-.281	-.279	-.280	-.280	-.280
3	98 Stbd	.253	.250	.250	.252	.255	.253	.251	.254
4	98 East	.245	.241	.237	.234	.233	.234	.235	.236
5	98 West	.040	.039	.037	.036	.036	.036	.036	.037
6	92 Stbd	.057	.079	.101	.122	.110	.096	.075	.056
7	92 Keel	-.011	-.011	-.012	-.013	-.013	-.013	-.013	-.013
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.123	-.140	-.157	-.175	-.167	-.152	-.137	-.123
11	80 Keel	.127	.128	.128	.128	.128	.128	.129	.129
12	72 Stbd	-.268	-.315	-.360	-.405	-.378	-.347	-.312	-.273
13	72 Keel	3.178	3.178	3.178	3.178	3.178	3.178	3.179	3.181
14	64 Stbd	-.300	-.359	-.417	-.474	-.438	-.398	-.354	-.307
15	64 East	-.352	-.353	-.354	-.356	-.357	-.357	-.357	-.357
16	64 West	-.228	-.228	-.228	-.228	-.228	-.227	-.225	-.224
17	56 Stbd	-.644	-.657	-.669	-.681	-.675	-.667	-.657	-.646
18	56 East	-.628	-.642	-.654	-.666	-.659	-.651	-.642	-.631
19	56 West	-.634	-.634	-.634	-.634	-.631	-.626	-.620	-.615
20	48 Stbd	-.367	-.437	-.505	-.574	-.535	-.489	-.436	-.381
21	48 Keel	-.644	-.644	-.644	-.644	-.642	-.640	-.635	-.631
22	40 Stbd	.274	.215	.158	.100	.133	.172	.216	.262
23	40 Keel	-.139	-.138	-.138	-.138	-.142	-.142	-.141	-.142
24	16 Stbd	.166	.187	.206	.222	.208	.190	.170	.146
25	16 East	-.011	-.014	-.018	-.024	-.021	-.017	-.012	-.009
26	16 West	.141	.142	.142	.140	.144	.148	.151	.152
27	8 Stbd	.295	.281	.268	.253	.249	.248	.251	.255
28	8 Keel	-1.622	-1.688	-1.755	-1.826	-1.784	-1.738	-1.687	-1.632
29	No name	.301	.299	.295	.290	.292	.294	.297	.299

TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		Percent Load							
		+30% ↓	+20% ↓	+10% ↓	Still Water	-10% ↓	-20% ↓	-30% ↓	-40% ↓
1	108 Stbd	2.982	2.944	2.905	2.872	2.821	2.785	2.750	2.714
2	108 Keel	-.279	-.278	-.277	-.277	-.275	-.274	-.273	-.273
3	98 Stbd	.250	.256	.256	.256	.253	.244	.250	.254
4	98 East	.239	.241	.243	.246	.248	.251	.253	.257
5	98 West	.038	.039	.040	.041	.041	.042	.043	.043
6	92 Stbd	.037	.016	±.003	-.025	-.041	-.059	-.071	-.095
7	92 Keel	-.012	-.012	-.011	-.011	-.011	-.010	-.010	-.008
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.108	-.092	-.073	-.040	±.002	.018	.037	.054
11	80 Keel	.128	.128	.127	.126	.125	.124	.123	.123
12	72 Stbd	-.232	-.189	-.143	-.070	±.002	.046	.095	.143
13	72 Keel	3.183	3.183	3.181	3.180	3.178	3.176	3.175	3.175
14	64 Stbd	-.255	-.201	-.142	-.061	.031	.092	.155	.217
15	64 East	-.356	-.356	-.356	-.357	-.357	-.357	-.356	-.354
16	64 West	-.226	-.228	-.230	-.233	-.237	-.240	-.242	-.243
17	56 Stbd	-.634	-.619	-.599	-.567	-.496	-.440	-.381	-.325
18	56 East	-.618	-.603	-.584	-.554	-.495	-.450	-.402	-.355
19	56 West	-.619	-.623	-.619	-.626	-.619	-.633	-.633	-.634
20	48 Stbd	-.322	-.263	-.194	-.119	-.007	.062	.134	.205
21	48 Keel	-.629	-.627	-.625	-.624	-.574	-.646	-.643	-.639
22	40 Stbd	.309	.357	.411	.484	.574	.630	.684	.738
23	40 Keel	-.142	-.144	-.147	-.150	-.153	-.156	-.156	-.159
24	16 Stbd	.118	.086	.053	±.003	-.011	-.042	-.071	-.099
25	16 East	.007	-.005	-.005	-.005	-.006	-.007	-.006	±.003
26	16 West	.152	.150	.147	.145	.146	.148	.153	.160
27	8 Stbd	.259	.264	.272	.267	.287	.294	.301	.307
28	8 Keel	-1.577	-1.520	-1.463	-1.394	-1.300	-1.241	-1,182	-1.127
29	No name	.301	.302	.302	.301	.300	.299	.299	.302

TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in) Percent Load -50%↓	-60%↓	-70%↓	-80%↓	-70%↑	-60%↑	-50%↑	-40%↑
1	108 Stbd	2.678	2.641	2.605	2.568	2.598	2.632	2.666	2.701
2	108 Keel	-.272	-.270	-.267	-.264	-.264	-.267	-.270	-.272
3	98 Stbd	.252	.255	.261	.252	.255	.249	.252	.250
4	98 East	.260	.262	.265	.268	.268	.267	.264	.262
5	98 West	.044	.046	.047	.048	.049	.049	.048	.045
6	92 Stbd	-.114	-.133	-.151	-.168	-.157	-.142	-.126	-.109
7	92 Keel	-.008	-.007	-.006	-.005	-.005	-.006	-.006	-.007
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	.072	.090	.108	.126	.116	.103	.088	.073
11	80 Keel	.122	.121	.119	.118	.119	.119	.119	.119
12	72 Stbd	.192	.242	.291	.342	.315	.278	.236	.193
13	72 Keel	3.173	3.170	3.168	3.166	3.166	3.165	3.165	3.165
14	64 Stbd	.282	.349	.413	.478	.443	.396	.343	.286
15	64 East	-.355	-.356	-.358	-.360	-.358	-.355	-.353	-.352
16	64 West	-.247	-.250	-.255	-.259	-.259	-.257	-.257	-.257
17	56 Stbd	-.269	-.215	-.163	-.113	-.143	-.181	-.223	-.268
18	56 East	-.311	-.267	-.226	-.187	-.210	-.240	-.273	-.309
19	56 West	-.645	-.640	-.654	-.656	-.661	-.660	-.660	-.660
20	48 Stbd	.278	.354	.431	.507	.468	.417	.358	.296
21	48 Keel	-.639	-.666	-.668	-.675	-.676	-.676	-.676	-.676
22	40 Stbd	.793	.850	.909	.967	.936	.896	-.851	.803
23	40 Keel	-.162	-.168	-.174	-.180	-.171	-.168	-.165	-.160
24	16 Stbd	-.124	-.146	-.166	-.183	-.169	-.153	-.135	-.113
25	16 East	-.006	-.011	-.015	-.021	-.020	-.017	-.015	-.012
26	16 West	.163	.165	.166	.167	.166	.163	.161	.159
27	8 Stbd	.316	.327	.337	.349	.355	.355	.353	.349
28	8 Keel	-1.072	-1.020	-.970	-.922	-.951	-.988	-1.030	-1.074
29	No name	.298	.293	.287	.279	.280	.284	.287	.291

TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in)					
		Percent Load			Still Water	Zero	Unlock
		-30%↑	-20%↑	-10%↑			
1	108 Stbd	2.736	2.772	2.807	2.868	2.876	2.853
2	108 Keel	-.275	-.278	-.280	-.280	-.461	-.242
3	98 Stbd	.242	.252	.250	.243	.243	.247
4	98 East	.260	.257	.254	.251	.151	.344
5	98 West	.043	.041	.039	.038	-.035	.106
6	92 Stbd	-.091	-.073	-.055	-.027	-.022	-.038
7	92 Keel	-.008	-.009	-.010	-.010	-.035	.076
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	.057	.040	.023	.001	-.003	-.016
11	80 Keel	.120	.121	.122	.122	.165	.254
12	72 Stbd	.150	.105	.060	.006	-.004	-.010
13	72 Keel	3.165	3.165	3.165	3.165	3.234	3.316
14	64 Stbd	.227	.168	.109	.035	.018	.003
15	64 East	-.350	-.349	-.348	-.350	-.230	-.154
16	64 West	-.257	-.256	-.256	-.256	-.162	-.091
17	56 Stbd	-.317	-.368	-.424	-.505	-.483	-.445
18	56 East	-.348	-.389	-.433	-.500	-.452	-.393
19	56 West	-.660	-.660	-.660	-.660	-.560	-.486
20	48 Stbd	.231	.165	.097	±.002	-.020	-.027
21	48 Keel	-.676	-.676	-.676	-.676	-.608	-.532
22	40 Stbd	.754	.704	.652	.577	.559	.566
23	40 Keel	-.154	-.151	-.147	-.147	.058	.009
24	16 Stbd	-.088	-.059	-.026	.007	.008	.019
25	16 East	-.010	-.008	-.007	-.008	.015	.046
26	16 West	.156	.153	.149	.143	.035	.148
27	8 Stbd	.344	.338	.333	.330	.316	.331
28	8 Keel	-1.121	-1.172	-1.226	-1.311	-1.282	-1.238
29	No name	.295	.298	.300	.299	.222	.301

TABLE D.11 - ASEM STATIC TEST 3--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in)							
		Unlock	Zero Stress	Still Water	Lateral Offset	Percent Load			
						+10%↑	+20%↑	+30%↑	+40%↑
1	108 Stbd	-.027	-.021	.017	.068	.243	.229	.201	.175
2	108 Keel	±.031	±.028	±.028	±.026	±.027	±.028	±.028	±.028
3	98 Stbd	.201	.204	.230	.231	.236	.233	.230	.235
4	98 East	.324	.149	.231	.220	.140	.072	±.004	-.061
5	98 West	.089	-.042	.022	.015	-.041	-.098	-.154	-.210
6	92 Stbd	-.036	-.020	-.010	.106	.106	.100	.091	.079
7	92 Keel	.065	-.034	-.017	-.021	-.041	-.059	-.076	-.093
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.005	-.005	-.005	-.005	-.005	-.005	-.005	-.005
10	80 Stbd	-.034	-.020	-.007	-.143	-.139	-.132	-.120	-.110
11	80 Keel	.248	.178	.129	.129	.164	.199	.235	.269
12	72 Stbd	-.015	-.005	.012	-.307	-.303	-.288	-.266	-.245
13	72 Keel	3.376	3.314	3.234	3.232	3.289	3.350	3.411	3.472
14	64 Stbd	-.011	±.003	.021	-.368	-3.580	-.338	-.309	-.279
15	64 East	-.145	-.192	-.320	-.324	-.231	-.129	-.020	.104
16	64 West	-.033	-.081	-.186	-.175	-.096	-.013	.065	.143
17	56 Stbd	-.474	-.500	-.523	-.669	-.662	-.652	-.636	-.617
18	56 East	-.416	-.458	-.510	-.653	-.641	-.621	-.584	-.523
19	56 West	-.218	-.266	-.382	-.382	-.294	-.202	-.110	-.023
20	48 Stbd	-.065	-.054	-.037	-.466	-.457	-.435	-.405	-.377
21	48 Keel	-.100	-.154	-.262	-.263	-.184	-.099	-.017	.059
22	40 Stbd	.525	.530	.548	.182	.193	.216	-.248	.282
23	40 Keel	.008	-.041	-.134	-.128	-.063	.006	.075	.143
24	16 Stbd	-.043	-.038	-.012	.186	.189	.178	.156	.128
25	16 East	.034	-.007	-.013	-.031	-.039	-.037	-.043	-.051
26	16 West	.108	.039	.105	.102	.033	-.007	-.067	-.127
27	8 Stbd	.272	.273	.288	.269	.270	.272	.276	.275
28	8 Keel	-1.267	-1.296	-1.325	-1.720	-1.683	-1.630	-1.558	-1.488
29	No name	.265	.217	.282	.270	.201	.171	.127	.080

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		Percent Load							
		+50%↑	+60%↑	+70%↑	+80%↑	+70%↓	+60%↓	+50%↓	+40%↓
1	108 Stbd	.153	.091	.024	-.124	-.223	-.248	-.265	-.272
2	108 Keel	±.028	±.029	±.028	±.027	±.027	±.028	±.027	±.027
3	98 Stbd	.245	.237	.238	.243	.248	.244	.252	.245
4	98 East	-.126	-.194	-.257	-.319	-.257	-.194	-.129	-.061
5	98 West	-.266	-.324	-.381	-.436	-.378	-.322	-.264	-.205
6	92 Stbd	.062	.051	.012	-.072	-.129	-.146	-.155	-.160
7	92 Keel	-.112	-.133	-.152	-.171	-.152	-.133	-.133	-.092
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.005	-.005	-.005	-.005	-.005	-.005	-.005	-.005
10	80 Stbd	-.095	-.065	-.016	.048	.098	.114	.123	.129
11	80 Keel	.302	.333	.366	.395	.361	.327	.293	.260
12	72 Stbd	-.213	-.155	-.055	.127	.277	.323	.351	.368
13	72 Keel	3.531	3.586	3.642	3.693	3.635	3.576	3.518	3.460
14	64 Stbd	-.237	-.168	-.048	.185	.375	.435	.472	.495
15	64 East	.214	.326	.437	.541	.437	.332	.228	.123
16	64 West	.217	.292	.366	.437	.352	.073	.194	.115
17	56 Stbd	-.586	-.504	-.331	-.850	-.850	-.851	-.852	-.853
18	56 East	-.423	-.295	-.116	-.830	-.833	-.836	-.839	-.842
19	56 West	.056	.140	.223	.298	.208	.120	.034	-.052
20	48 Stbd	-.328	-.251	-.147	.124	.340	.409	.452	.482
21	48 Keel	.134	.209	.283	.354	.270	.193	.116	.039
22	40 Stbd	.327	.386	.491	.711	.871	.922	.954	.975
23	40 Keel	.206	.270	.333	.391	.322	.255	.190	.120
24	16 Stbd	.104	.077	.019	-.021	-.075	-.095	-.111	-.129
25	16 East	-.060	-.069	-.078	-.085	-.065	-.049	-.039	-.032
26	16 West	-.180	-.226	-.266	-.298	-.254	-.211	-.165	-.110
27	8 Stbd	.275	.273	.250	.265	.266	.274	.285	.299
28	8 Keel	-1.399	-1.281	-1.099	-3.582	-3.583	-3.582	-3.582	-3.583
29	No name	.031	-.016	-.067	-.116	-.066	-.019	.024	.065

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in) Percent Load +30%↓	+20%↓	+10%↓	Still Water	-10%↓	-20%↓	-30%↓	-40%↓
1	108 Stbd	-.276	-.270	-.270	-.250	-.247	-.230	-.209	-.191
2	108 Keel	+.027	±.028	±.027	±.027	±.027	±.027	.027	.027
3	98 Stbd	.250	.245	.252	.257	.254	.264	.255	.265
4	98 East	.006	.076	-.150	.240	.332	.412	.492	.571
5	98 West	-.147	-.089	-.030	.027	.086	.148	.208	.268
6	92 Stbd	-.162	-.162	-.159	-.155	-.148	-.141	-.132	-.120
7	92 Keel	-.073	-.055	-.035	-.015	±.003	.022	.041	.060
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.005	-.005	-.005	-.004	-.005	-.005	-.004	-.004
10	80 Stbd	.131	.132	.131	.129	.125	.119	.110	.098
[illegible]	80 Keel	.225	.189	.156	.122	.086	.050	.014	-.019
12	72 Stbd	.378	.383	.381	.376	.366	.349	.325	.294
13	72 Keel	3.400	3.339	3.281	3.221	3.161	3.099	3.040	2.981
14	64 Stbd	.508	.513	.510	.504	.490	.468	.437	.397
15	64 East	.004	-.104	-.202	-.302	-.401	-.499	-.595	-.689
16	64 West	.035	-.047	-.125	-.204	-.285	-.367	-.445	-.522
17	56 Stbd	-.854	-.856	-.857	-.858	-.859	-.861	-.862	-.863
18	56 East	-.844	-.848	-.850	-.852	-.854	-.856	-.858	-.860
19	56 West	-.142	-.234	-.321	-.410	-.501	-.596	-.686	-.774
20	48 Stbd	.502	.513	.514	.512	.501	.481	.451	.413
21	48 Keel	-.039	-.121	-.199	-.280	-.364	-.452	-.534	-.609
22	40 Stbd	.988	.994	.992	.987	.975	.956	.930	.897
23	40 Keel	.050	-.020	-.089	-.157	-.230	-.312	-.384	-.456
24	16 Stbd	-.152	-.158	-.159	-.157	-.150	-.141	-.130	-.115
25	16 East	-.027	-.024	-.020	-.018	-.022	-.034	-.038	-.035
26	16 West	-.045	-.003	.037	.111	.166	.185	.211	.241
27	8 Stbd	.316	.334	.349	.368	.385	.400	.414	.427
28	8 Keel	-3.583	-3.583	-3.583	-3.584	-3.584	-3.584	-3.583	-3.584
29	No name	.105	.146	.189	.258	.296	.323	.359	.400

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		Percent Load							
		-50%↓	-60%↓	-70%↓	-80%↓	-70%↑	-60%↑	-50%↑	-40%↑
1	108 Stbd	-.154	-.105	-.033	.110	.227	.256	.267	.282
2	108 Keel	.028	.028	.027	.027	.027	.027	.027	.027
3	98 Stbd	.271	.262	.265	.265	.265	.266	.268	.265
4	98 East	.649	.721	.792	.817	.741	.698	.625	.550
5	98 West	.324	.378	.431	.442	.381	.355	.299	.241
6	92 Stbd	-.106	-.087	-.046	.009	.077	.100	.113	.122
7	92 Keel	.076	.090	.105	.084	.063	.073	.056	.039
8	86 Stbd	-.009	-.009	-.009	-.008	-.009	-.009	-.009	-.009
9	86 Port	-.004	-.004	-.004	-.004	-.004	-.004	-.004	-.004
10	80 Stbd	.083	.062	.020	-.092	-.148	-.162	-.172	-.175
11	80 Keel	-.055	-.092	-.129	-.192	-.159	-.102	-.067	-.030
12	72 Stbd	.251	.193	.098	-.128	-.272	-.311	-.337	-.350
13	72 Keel	2.921	2.861	2.802	2.721	2.774	2.850	2.907	2.966
14	64 Stbd	.345	.274	.151	-.135	-.324	-.373	-.405	-.421
15	64 East	-.784	-.879	-.972	-1.086	-1.009	-.909	-.823	-.734
16	64 West	-.600	-.678	-.755	-.846	-.767	-.675	-.597	-.517
17	56 Stbd	-.864	-.866	-.868	-.871	-.871	-.870	-.870	-.869
18	56 East	-.862	-.863	-.865	-.868	-.867	-.866	-.865	-.863
19	56 West	-.862	-.950	-1.036	-1.134	-1.046	-.947	-.861	-.772
20	48 Stbd	.359	.283	.153	-.166	-.377	-.432	-.475	-.498
21	48 Keel	-.688	-.769	-.848	-.930	-.848	-.765	-.690	-.611
22	40 Stbd	.853	.793	.674	.377	.207	.163	.134	.120
23	40 Keel	-.525	-.595	-.661	-.734	-.665	-.590	-.520	-.449
24	16 Stbd	-.097	-.073	-.018	.077	.146	.165	.175	.181
25	16 East	-.033	.030	-.026	-.015	-.031	-.046	-.055	-.061
26	16 West	.270	.300	.329	.366	.338	.307	.279	.252
27	8 Stbd	.433	.432	.439	.286	.230	.218	.208	.203
28	8 Keel	-3.584	-3.584	-3.584	-3.584	-3.572	-3.573	-3.566	-3.572
29	No name	.447	.483	.527	.580	.535	.485	.440	.399

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in)						
		Percent Load			Lateral Offset	Still Water	Zero	Unlock
		-30%↑	-20%↑	-10%↑				
1	108 Stbd	.299	.288	.281	.267	.040	.029	-.018
2	108 Keel	.027	.028	.027	-.027	.027	.027	.027
3	98 Stbd	.269	.268	.268	.261	.272	.265	.266
4	98 East	.471	.394	.317	.221	.226	.129	.331
5	98 West	.181	.123	.066	.007	.010	-.060	.087
6	92 Stbd	.128	.132	.132	.131	-.004	-.003	-.033
7	92 Keel	.021	-.003	-.013	-.032	-.030	-.053	.064
8	86 Stbd	-.008	-.009	-.008	-.009	-.008	-.009	-.009
9	86 Port	-.004	-.004	-.004	-.004	-.004	-.004	-.004
10	80 Stbd	-.174	-.172	-.167	-.161	-.025	-.023	-.046
11	80 Keel	.005	.040	.077	.112	.113	-.156	.249
12	72 Stbd	-.355	-.355	-.349	-.339	-.014	-.011	-.029
13	72 Keel	3.025	3.084	3.143	3.203	3.209	3.284	3.371
14	64 Stbd	-.426	-.426	-.418	-.404	-.007	-.005	-.027
15	64 East	-.643	-.552	-.457	-.362	-.354	-.226	-.146
16	64 West	-.435	-.356	-.276	-.196	-.200	-.100	-.027
17	56 Stbd	-.869	-.869	-.868	-.866	-.862	-.860	-.858
18	56 East	-.862	-.861	-.859	-.857	-.854	-.851	-.848
19	56 West	-.681	-.592	-.502	-.412	-.408	-.295	-.219
20	48 Stbd	-.511	-.518	-.514	-.503	-.060	-.068	-.081
21	48 Keel	-.527	-.446	-.365	.281	-.277	-.177	-.094
22	40 Stbd	.116	.119	.129	.148	.518	.523	.528
23	40 Keel	-.372	-.302	-.227	-.155	-.155	-.065	.011
24	16 Stbd	.185	.188	.190	.194	-.015	-.018	-.017
25	16 East	-.056	-.060	-.062	-.061	-.032	-.029	.034
26	16 West	.237	.207	.174	.118	.118	.029	.116
27	8 Stbd	.202	.202	.207	.216	.258	.261	.271
28	8 Keel	-3.576	-3.579	-3.579	-3.579	-3.567	-3.566	-3.554
29	No name	.369	.322	.289	.251	.277	.204	.279

TABLE D.12 - ASEM STATIC TEST 4--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in) Unlock	Zero Stress	Still Water	Lateral Offset	Percent Load +10%↑	+20%↑	+30%↑	+40%↑
1	108 Stbd	-.106	-.015	-.006	-.273	-.256	-.232	-.203	-.171
2	108 Keel	.027	±.027	±027	±.027	±.027	±.027	±.027	±.028
3	98 Stbd	.265	.257	.245	.253	.251	.253	.257	.262
4	98 East	.319	.159	.247	.269	.196	.125	.053	-.016
5	98 West	.121	-.017	.053	.065	.007	-.051	-.111	-.170
6	92 Stbd	-.085	-.034	-.027	-.152	-.149	-.140	-.128	-.113
7	92 Keel	.080	-.028	-.005	±.003	-.020	-.041	-.062	-.081
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.093	-.030	-.021	.110	.100	.089	.075	.059
11	80 Keel	.256	.166	.122	.115	.148	.181	.215	.250
12	72 Stbd	-.058	-.023	-.011	.309	.288	.260	.222	.179
13	72 Keel	3.356	3.274	3.199	3.185	3.241	3.298	3.358	3.417
14	64 Stbd	-.045	-.011	±.003	.430	.402	.364	.316	.258
15	64 East	-.154	-.227	-.350	-.362	-.267	-.171	-.060	.059
16	64 West	-.037	-.107	-.207	-.232	-.156	-.077	.005	.087
17	56 Stbd	-.478	-.501	-.529	-.152	-.144	-.140	-.131	-.142
18	56 East	-.416	-.466	-.521	-.219	-.188	-.156	-.110	-.086
19	56 West	-.312	-.384	-.497	-.528	-.445	-.359	-.273	-.191
20	48 Stbd	-.064	-.045	-.031	.486	.435	.391	.336	.272
21	48 Keel	-.255	-.328	-.431	-.463	-.387	-.309	-.230	-.152
22	40 Stbd	.540	.546	.552	.943	.912	.878	.836	.787
23	40 Keel	.010	-.060	-.151	-.188	-.113	-.043	.028	.097
24	16 Stbd	-.013	-.012	-.014	-.140	-.140	-.124	-.102	-.071
25	16 East	.058	.009	.006	-.017	-.023	-.030	-.036	-.042
26	16 West	.126	.052	.122	.134	.065	.023	-.022	-.083
27	8 Stbd	.320	.304	.308	.373	.361	.353	.345	.340
28	8 Keel	-1.270	-1.297	-1.335	-.959	-.947	-.937	-.921	-.926
29	No name		.255	.321	.291	.224	.185	.144	.101

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		Percent Load							
		+50%↑	+60%↑	+70%↑	+80%↑	+70%↓	+60%↓	+50%↓	+40%↓
1	108 Stbd	-.132	-.082	±.001	.130	.233	.267	.276	.281
2	108 Keel	±.027	±.027	±.027	±.027	±.028	±.028	±.027	-.029
3	98 Stbd	.262	.247	.250	.252	.250	.248	.245	.248
4	98 East	-.089	-.161	-.231	-.307	-.254	-.196	-.136	-.073
5	98 West	-.232	-.292	-.351	-.413	-.360	-.305	-.250	-.193
6	92 Stbd	-.093	-.069	-.023	.048	.109	.128	.135	.138
7	92 Keel	-.103	-.123	-.143	-.164	-.145	-.127	-.108	-.089
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	.041	+.018	-.020	-.173	-.156	-.168	-.174	-.176
11	80 Keel	.285	.320	.357	.396	.369	.337	.304	.271
12	72 Stbd	.129	.067	-.030	-.247	-.370	-.404	-.418	-.424
13	72 Keel	3.475	3.533	3.589	3.638	3.601	3.549	3.492	3.435
14	64 Stbd	.193	.111	-.018	-.281	-.429	-.470	-.490	-.500
15	64 East	.173	.289	.410	.541	.449	.342	.232	.120
16	64 West	.169	.252	.337	.422	.358	.285	.210	.132
17	56 Stbd	-.162	-.202	-.304	-.550	-.633	-.650	-.660	-.666
18	56 East	-.068	-.063	-.105	-.264	-.475	-.562	-.601	-.623
19	56 West	-.111	-.032	.042	.100	.048	-.031	-.115	-.201
20	48 Stbd	.194	.090	-.067	-.362	-.530	-.574	-.595	-.604
21	48 Keel	-.077	-.026	.015	.019	-.030	-.101	-.175	-.251
22	40 Stbd	.728	.657	.539	.304	.157	.117	.097	.087
23	40 Keel	.165	.243	.314	.397	.342	.281	.220	.154
24	16 Stbd	-.038	-.004	.061	.116	.168	.183	.195	.206
25	16 East	-.048	-.056	-.067	-.080	-.064	-.048	-.034	-.021
26	16 West	-.142	-.196	-.248	-.300	-.268	-.228	-.180	-.125
27	8 Stbd	.335	.332	.353	.331	.329	.322	.313	.303
28	8 Keel	-.942	-.977	-1.075	-1.334	-1.560	-1.643	-1.695	-1.731
29	No name	.058	.012	-.035	-.080	-.028	.019	.067	.113

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		Percent Load							
		+30%↓	+20%↓	+10%↓	Still Water	-10%↓	-20%↓	-30%↓	-40%↓
1	108 Stbd	.280	.278	.266	.252	.233	.210	.181	.146
2	108 Keel	±.028	±.027	-.027	±.027	±.027	±.027	±.027	±.027
3	98 Stbd	.251	.253	.249	.249	.248	.248	.260	.249
4	98 East	-.009	.057	.125	.205	.307	.387	.466	.549
5	98 West	-.137	-.080	-.022	.036	.094	.155	.214	.276
6	92 Stbd	.136	.132	.126	.116	.103	.088	.072	.052
7	92 Keel	-.071	-.052	-.034	-.014	±.003	.023	.041	.060
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.176	-.174	-.170	-.165	-.160	-.152	-.142	-1.300
11	80 Keel	.236	.201	.164	.130	.094	.059	.022	-.012
12	72 Stbd	-.423	-.417	-.407	-.394	-.377	-.355	-.327	-.291
13	72 Keel	3.376	3.316	3.254	3.196	3.136	3.075	3.013	2.952
14	64 Stbd	-.500	-.494	-.481	-.464	-.442	-.414	-.377	-.330
15	64 East	.003	-.118	-.229	-.334	-.435	-.534	-.634	-.730
16	64 West	.054	-.026	-.110	-.190	-.271	-.353	-.435	-.517
17	56 Stbd	-.671	-.676	-.678	-.679	-.679	-.678	-.676	-.672
18	56 East	-.637	-.650	-.658	-.663	-.667	-.669	-.670	-.670
19	56 West	-.287	-.378	-.474	-.565	-.658	-.753	-.849	-.944
20	48 Stbd	-.604	-.597	-.583	-.564	-.539	-.508	-.466	-.415
21	48 Keel	-.328	-.408	-.493	-.574	-.657	-.741	-.826	-.912
22	40 Stbd	.085	.088	.096	.107	.123	.144	.174	.212
23	40 Keel	.086	.017	-.056	-.130	-.203	-.280	-.353	-.430
24	16 Stbd	.215	.222	.217	.205	.189	.170	.149	.128
25	16 East	-.010	±.003	±.003	±.003	.007	.008	.010	.012
26	16 West	-.067	-.003	.045	.130	.190	.228	.264	.298
27	8 Stbd	.292	.280	.268	.253	.238	.224	.214	.208
28	8 Keel	-1.756	-1.779	-1.790	-1.793	-1.792	-1.784	-1.770	-1.747
29	No name	.159	.203	.238	.309	.352	.392	.433	.472

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		Percent Load							
		-50% ↓	-60% ↓	-70% ↓	-80% ↓	-70% ↑	-60% ↑	-50% ↑	-40% ↑
1	108 Stbd	.104	.049	-.042	-.189	-.290	-.316	-.327	-.330
2	108 Keel	±.027	±.027	±.027	±.027	±.027	±.027	±.027	±.027
3	98 Stbd	.251	.250	.246	.260	.244	.253	.246	.250
4	98 East	.632	.723	.806	.897	.842	.774	.701	.624
5	98 West	.337	.403	.463	.529	.482	.428	.370	.311
6	92 Stbd	.030	±.002	-.049	-.109	-.155	-.167	-.174	-.177
7	92 Keel	.078	.101	.119	.140	.126	.109	.089	.070
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.112	-.090	-.040	.068	.123	.136	.142	.143
11	80 Keel	-.050	-.088	-.127	-.166	-.135	-.103	-.071	-.038
12	72 Stbd	-.244	-.184	-.071	.160	.303	.341	.361	.370
13	72 Keel	2.889	2.825	2.761	2.695	2.743	2.799	2.854	2.910
14	64 Stbd	-.269	-.190	-.046	.250	.436	.482	.506	.515
15	64 East	-.828	-.924	-1.020	-1.118	-1.039	-.955	-.870	-.781
16	64 West	-.600	-.689	-.776	-.870	-.805	-.732	-.659	-.583
17	56 Stbd	-.666	-.657	-.636	-.551	-.399	-.335	-.286	-.245
18	56 East	-.667	-.663	-.651	-.617	-.562	-.510	-.454	-.401
19	56 West	-1.041	-1.146	-1.243	-1.351	-1.278	-1.197	-1.113	-1.028
20	48 Stbd	-.348	-.261	-.118	.223	.426	.478	.505	.518
21	48 Keel	-.999	-1.094	1.184	-1.281	-1.207	-1.132	-1.056	-.979
22	40 Stbd	.263	.331	.457	.754	.915	.956	.977	.987
23	40 Keel	-.504	-.588	-.670	-.757	-.707	-.644	-.580	-.515
24	16 Stbd	.105	.077	.011	-.094	-.148	-.160	-.165	-.166
25	16 East	.015	±.003	.002	-.006	-.028	-.041	-.053	-.062
26	16 West	.332	.345	.370	.395	.367	.336	.305	.275
27	8 Stbd	.208	.216	.225	.375	.417	.425	.428	.429
28	8 Keel	-1.715	-1.671	-1.583	-1.396	-1.240	-1.175	-1.123	-1.078
29	No name	.514	.536	.570	.596	.546	.496	.449	.405

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in): Percent Load -30%↑	-20%↑	-10%↑	Lateral Offset	Still Water	Zero	Unlock
1	108 Stbd	-.327	-.318	-.305	-.288	-.008	±.001	-.026
2	108 Keel	±.027	±.026	±.027	±.027	±.027	±.027	±.027
3	98 Stbd	.247	.257	.256	.248	.240	.244	.245
4	98 East	.548	.465	.388	.282	.254	.159	.363
5	98 West	.251	.186	.126	.062	.044	-.028	.123
6	92 Stbd	-.177	-.175	-.171	-.166	-.034	-.028	-.044
7	92 Keel	.051	.030	.010	-.009	-.015	-.040	.082
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	.141	.138	.130	.120	±.002	±.002	-.017
11	80 Keel	-.004	.029	.064	.100	.109	.152	.256
12	72 Stbd	.369	.363	.348	.328	.011	±.003	-.010
13	72 Keel	2.969	3.027	3.086	3.148	3.150	3.219	3.317
14	64 Stbd	.512	.504	.484	.458	.041	.021	.006
15	64 East	-.689	-.594	-.498	-.395	-.372	-.250	-.150
16	64 West	-.506	-.426	-.347	-.263	-.249	-.152	-.064
17	56 Stbd	-.211	-.181	-.158	-.140	-.506	-.486	-.440
18	56 East	-.351	-.303	-.260	-.218	-.508	-.459	-.389
19	56 West	-.941	-.851	-.763	-.670	-.669	-.570	-.478
20	48 Stbd	.519	.513	.496	.473	-.641	-.033	-.031
21	48 Keel	-.900	-.815	-.734	-.647	.565	-.569	-.483
22	40 Stbd	.988	.982	.966	.943	-.167	.547	.570
23	40 Keel	-.446	-.368	-.291	-.211	.013	-.082	.003
24	16 Stbd	-.165	-.162	-.159	-.155	-.023	.017	.032
25	16 East	-.068	-.062	-.064	-.057	.133	-.025	.044
26	16 West	.244	.227	.196	.150	.342	+.029	.130
27	8 Stbd	.428	.425	.417	.404	.306	.326	.346
28	8 Keel	-1.039	-1.004	-.976	-.952	-1.372	-1.285	-1.234
29	No name	.362	.333	.295	.264	.256	.226	.312

APPENDIX E

STRAIN GAGE SPECIFICATIONS AND LOCATION NOMENCLATURE

A brief summary of the specifications of the strain gages and the lead wires used to obtain the strain data follows. Almost all gages were either Micro-Measurements single arm gages or rosettes (0°-45°-90°) type CEA-13-250UW-120 or CEA-13-250UR-120, respectively. These are general purpose constantan strain gages with a fully encapsulated gird having exposed solder tabs. The manufacturer recommends that they be used on aluminum material in a temperature range of -100°F to 400°F (test temperatures were well within this range). The active gage length for them is 0.25 in. with a gage resistance of 120 ohms. The nominal gage factor (G.F.) was 2 to 2.1%. The cement used for bonding them to the model was M-M Certified M-Bond 200 and waterproofing was also applied. At the completion of static and cyclic testing, the majority of the original gages were still functioning properly, approximately 5 years after they were installed.

The lead wires which ran from the strain gages on the model to completion panels below it were either Belden 8919, Style 1015 600V-105°C lead wire, or Military Specification type 7003 lead wire. Both are 10 strand AWG 20 gage wire with insulation thicknesses of 3/32 in. O.D. for Belden and 2/32 in. for type 7003. The lead wire length ranged from 50 to 150 ft, depending on where the gage was located on the model. Gages internal to the hull generally required longer lead wires than exterior gages.

An alphanumeric numbering system for the strain gages was developed to locate them on the ASEM and to facilitate data analysis. The following is an explanation of the strain gage location nomenclature used in the tables of analyzed static test data in Appendix B.

First Character	Generalized ship section where gage is located
B8COMMP	"B" - Bulkhead
Gage is on a bulkhead	"H" - Hull
	"F" - Platform Deck
	"M" - Main Deck
	"T" - 02 Deck

First character

Generalized ship section where gage is located

"ϕ" or "Z" - 01 Deck

"W" - Deckhouse Wall

"A" - Access Hole (Gage nomenclature different, see additional example for explanation)

Second Character

Specific frame or bulkhead location (may be 3 digit character)

B8COMMP

Gage is on Bulkhead 8

Third Character

Indicates gage location relative to port or starboard side of ship:

B8COMMP

On Bulkhead 8

At Centerline

"S" - Starboard

"P" - Port

"C" - Centerline plane of ship

Fourth Character

Specific location of gage relative to Centerline of ship (usually refers to the number of stiffeners the gage is Port or Starboard off the Centerline). If the gage is located between two stiffeners the character is a decimal number. The number to the right of the decimal is the percent distance the gage is between the two stiffeners and the number to the left of the decimal is the number of the inboard most stiffener. If the strain gage is on a bulkhead, deck or hull, then the bulkhead, deck or hull stiffeners, respectively, are used as reference numbers.

B8COHHRH

Gage is on Bulkhead 8 and it is located zero stiffeners P or S from Centerline

B8S2MFP

Gage is 2 stiffeners starboard of the Centerline on Bulkhead 8

Fourth Character

B8S2.5MFP
Gage is midway between 2nd and 3rd stiffener, starboard of the Centerline on Bulkhead 8

Fifth and Sixth Character

B8S2MFP
Gage is located on Bulkhead 8; 2 stiffeners starboard of Centerline and between the Main Deck (M) and Platform Deck (F)

Combination of two characters (see First Character for listing) gives approximate vertical location of gage. If the gage is located on a deck, these characters are omitted. If fifth and sixth characters are "NA", gage is near the N.A. of ASEM.

Seventh Character (If not a Rosette)

B8S2MFP
Gage is on the nonstiffened or plate side of Bulkhead 8

Indicates whether the gage is on plate or stiffener. If the gage is on the plate, it may be on the stiffened or the nonstiffened side of the panel. If the fourth character is a decimal number, then it is positioned between two stiffeners, usually on the stiffened side of the structure

"P" - Plate

"S" or "W" - Stiffener (specifically the Web)

Seventh Character (If a Rosette)

B8P5FFRD
Gage is one arm of a rosette

Indicates the channel is one of three arms of a rosette.

Eighth Character (If a Rosette) B8P5FFRD Diagonal arm of a rosette on Bulkhead 8 near the Platform Deck	Indicates the direction of rosette arms: "H" - If plane of the rosette is vertical, arm is horizontal "L" - Arm is longitudinal "D" - Arm is 45° arm relative to "L" or "V" "V" - Arm is vertical

A slightly different system is devised for describing the location of gages near access holes:

First Character APMM36C1S Gage is near or on an access hole	Indicates access hole, "A"
Second Character APMM36C1S Access hole on port side of ship	Gage location relative to port or starboard side of ship, "S" - Starboard "P" - Port "C" - Centerline plane of ship
Third and Fourth Character APMM36C1S Port access hole is on the main deck	Defines level the access hole is on; "MM" - On Main Deck level "MΦ" - Between Main Deck and 01 deck level, on deckhouse side "ΦΦ" - on 01 Deck level "TT" or "ZZ" - on 02 Deck level "ΦT" or "ΦZ" - Between 01 and 02 Deck level

Fifth Character APMM36C1S Port access hole is at Frame 36 on the Main Deck	Specific frame or bulkhead location (may be a 3-digit character);
Sixth Character APMM36C1S Gage is on the coaming of the port access hole at Frame 36 on the Main Deck	Indicates if the gage is on the coaming, "C", of the access hole or the plate, "P", adjacent to the access hole or if a rosette, "R", is on the plate adjacent to the access hole;
Seventh Character APMM36C1S Port Main Deck access hole at Frame 36, the gage is the first of a series of gages on the coaming	Gage number for a sequence of gages a) For coaming and plate gage: this number increases going clockwise (looking down) with #3 gage at end of corner radius (1, 2, 3, 4 or 5) for square opening. b) For rosette: orientation of (V, L, D or H) rosette arm c) For oval (not square) holes: this gage number is omitted (see Eighth Character for oval holes).
Eighth Character APMM36C1PA Port Main Deck access hole at Frame 36, the gage is the first of a series on the port aft corner of the coaming (port relative to centerline of coaming)	Locates corner of access hole gage is located on. For coaming gage: a) For square access holes, the corner is denoted by 2 letters "P" - Port or "S" - Starboard "F" - Forward or "A" - Aft b) For oval holes, counterclockwise angle is degrees to gage with 3 o'clock being 0° (looking inboard)

Eighth Character

APMM36P1PF0.5

Port main deck access hole at Frame 36, the gage is near the port forward corner of the port section of coaming and lines up with the first of a series of gages on the coaming. It is 0.5 in. from the coaming.

Plate gage:

The coaming gage that lines up with the plate gage is identified and then the distance from the coaming is identified as the 11th, 12th and 13th character.

Rosettes:

The corner of the hole is identified

"P" - Port or "S" - Starboard and

"F" - Forward or "A" - Aft

"ϕ" - 01 Level (top of hole)

"M" - Main Deck Level (bottom of hole)

INITIAL DISTRIBUTION

Copies	
1	DDR&E/Lib
1	CNO/OP 098T
3	ONR
	1 Code 432 (Dr. Basdeka)
	1 Code 432 (Dr. Rajapakse)
	1 Code 474
4	CHNAVMAT
	1 071
	1 0714
	1 MAT 08T23
	1 Lib
1	USNA
1	NAVPGSCOL
1	USNROTCU & NAVADMINU MIT
1	DNL
1	NRL
	Tech Lib
16	NAVSEA
	1 SEA 05B
	1 SEA 05R
	1 SEA 05R25 (Vanderveldt)
	1 SEA 05R26 (Gagorik)
	1 SEA 55
	1 SEA 55Y (O'Brien)
	1 SEA 55Y1 (Arntson)
	1 SEA 55Y1 (Sielski)
	1 SEA 55Y1 (Gallagher)
	1 SEA 55Y1 (Packard)
	1 PMS 300
	1 PMS 303
	1 PMS 377
	1 PMS 399
	1 PMS 400
1	NAVSHIPYD BREM
1	NAVSHIPYD CHSN
1	NAVSHIPYD LONG BEACH

Copies	
1	NAVSHIPYD PEARL
1	NAVSHIPYD PHILA
1	NAVSHIPYD PTSMH
1	NAVSHIPYD NORVA
1	NAVSHIPYD MARE
12	DTIC
3	U.S. COGARD
	1 Naval Eng Div.
	1 Merchant Marine Tech Div.
	1 Ship Structures Comm
1	Lib of Congress
2	MARAD
	1 Div. of Ship Design
	1 Off of Res and Dev
1	NSF
	Engr Div Lib
1	Univ of California, Berkeley
	Dept of Naval Arch
1	Catholic Univ
	Dept of Mech Engr
1	George Washington Univ
	School of Engr & Applied Sci
1	MIT
	Dept Ocean Engr
1	Univ of Michigan
	Dept NAME
1	Webb Inst
2	National Academy of Sci
	1 National Res Council
	1 Ship Hull Res Comm

Copies	
1	SNAME
1	American Bureau of Shipping

CENTER DISTRIBUTION

Copies	Code	Name
1	11	
1	1605	
1	17	
1	1702	
2	1706 (m)	
1	1720	
1	1730	
1	1730.1	
1	1730.2	
1	1730.5	
20	1730.6	
1	1740	
1	1750	
1	1770	
2	1770.7 (m)	
1	185	
1	281	
10	5211.1	Reports Distribution
1	522.1	Unclassified Lib (C)
1	522.2	Unclassified Lib (A)

DTNSRDC ISSUES THREE TYPES OF REPORTS

1. DTNSRDC REPORTS, A FORMAL SERIES, CONTAIN INFORMATION OF PERMANENT TECHNICAL VALUE. THEY CARRY A CONSECUTIVE NUMERICAL IDENTIFICATION REGARDLESS OF THEIR CLASSIFICATION OR THE ORIGINATING DEPARTMENT.

2. DEPARTMENTAL REPORTS, A SEMIFORMAL SERIES, CONTAIN INFORMATION OF A PRELIMINARY, TEMPORARY, OR PROPRIETARY NATURE OR OF LIMITED INTEREST OR SIGNIFICANCE. THEY CARRY A DEPARTMENTAL ALPHANUMERICAL IDENTIFICATION.

3. TECHNICAL MEMORANDA, AN INFORMAL SERIES, CONTAIN TECHNICAL DOCUMENTATION OF LIMITED USE AND INTEREST. THEY ARE PRIMARILY WORKING PAPERS INTENDED FOR INTERNAL USE. THEY CARRY AN IDENTIFYING NUMBER WHICH INDICATES THEIR TYPE AND THE NUMERICAL CODE OF THE ORIGINATING DEPARTMENT. ANY DISTRIBUTION OUTSIDE DTNSRDC MUST BE APPROVED BY THE HEAD OF THE ORIGINATING DEPARTMENT ON A CASE-BY-CASE BASIS.